

Fig. 1

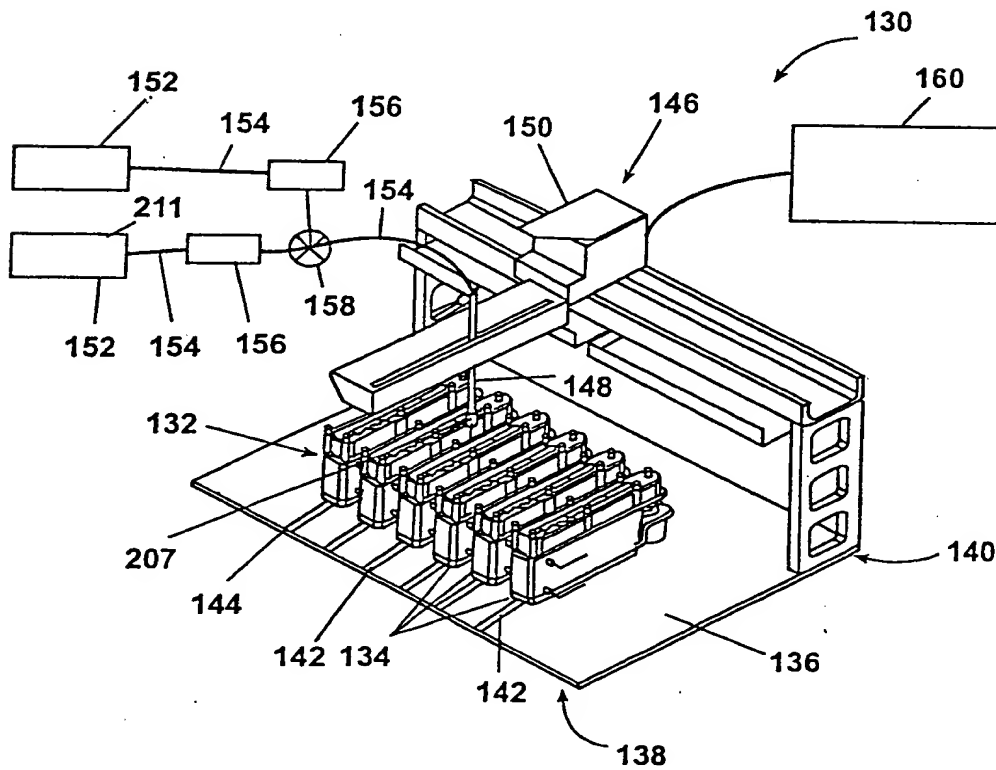


Fig. 2

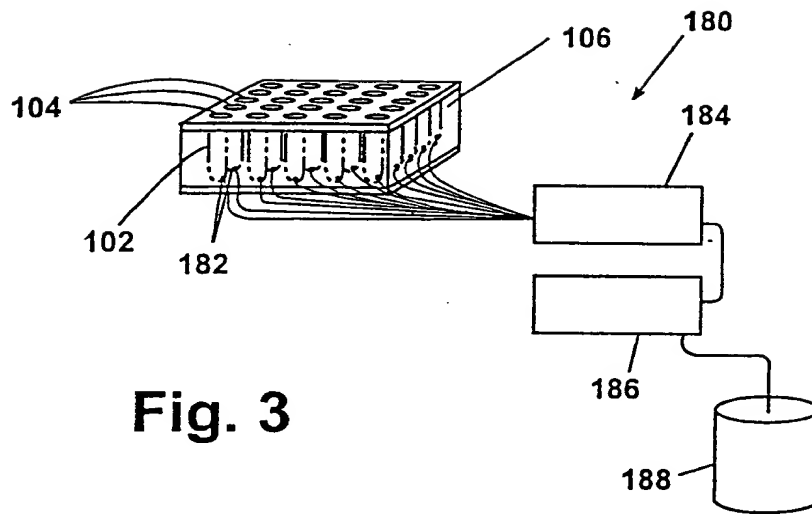


Fig. 3

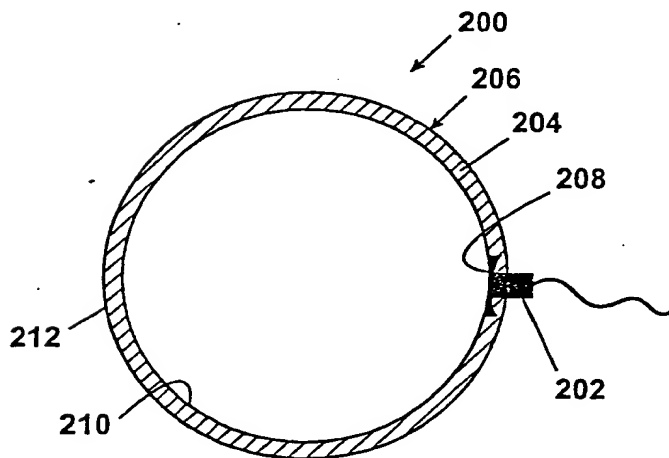


Fig. 4

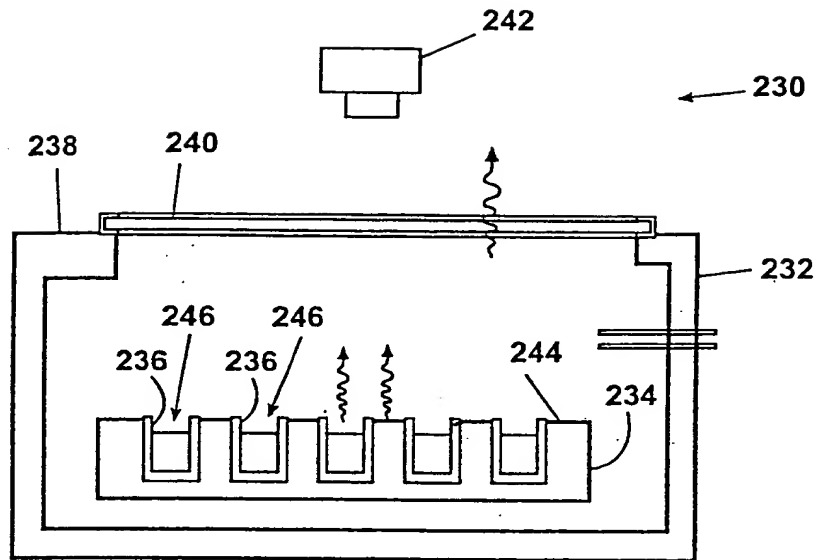


Fig. 5

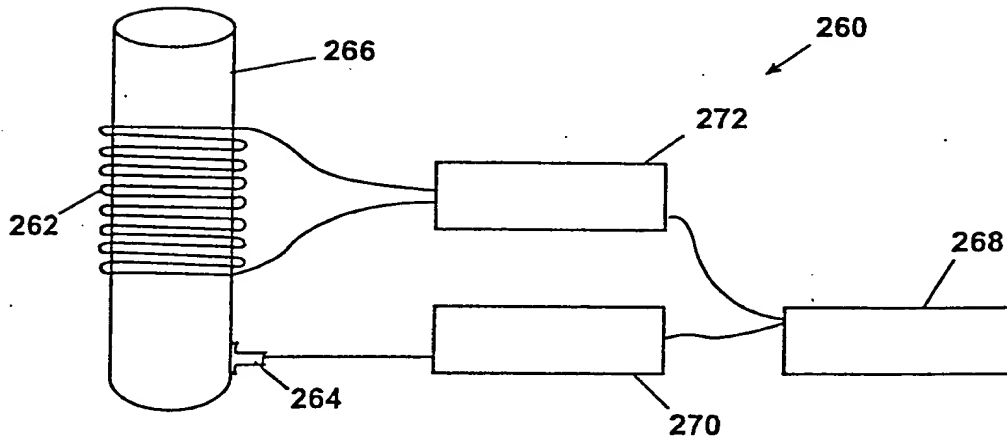


Fig. 6

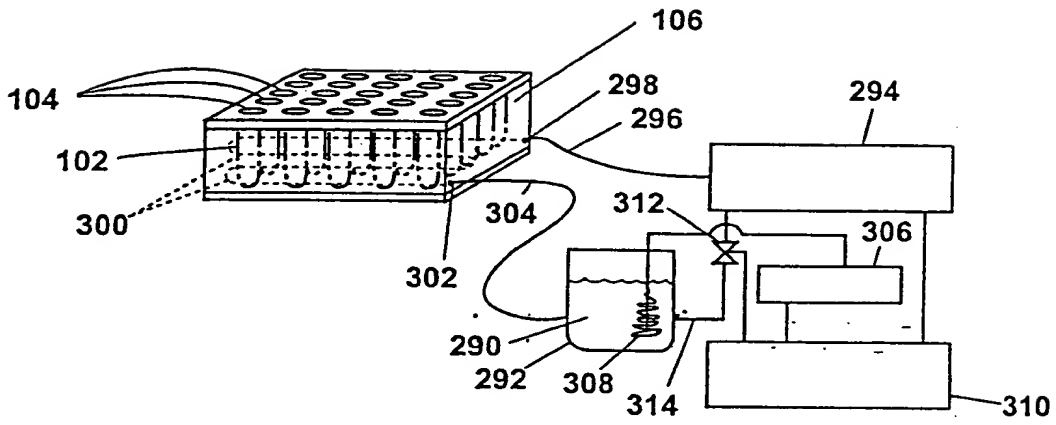


Fig. 7

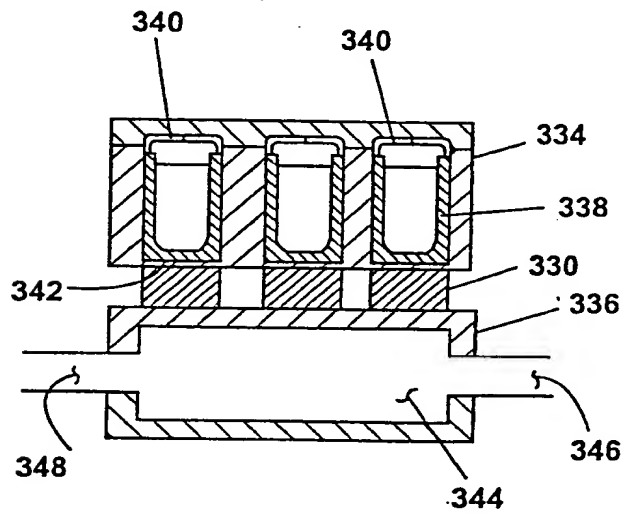


Fig. 8

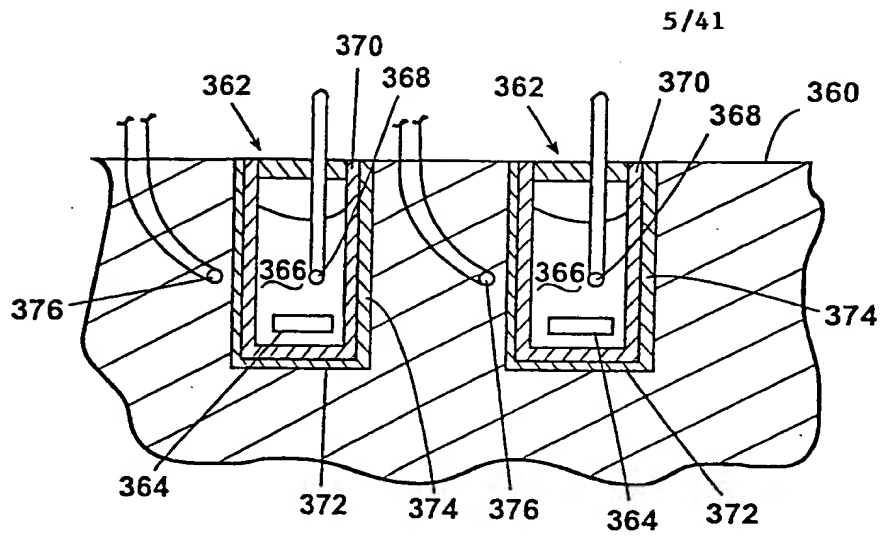


Fig. 9

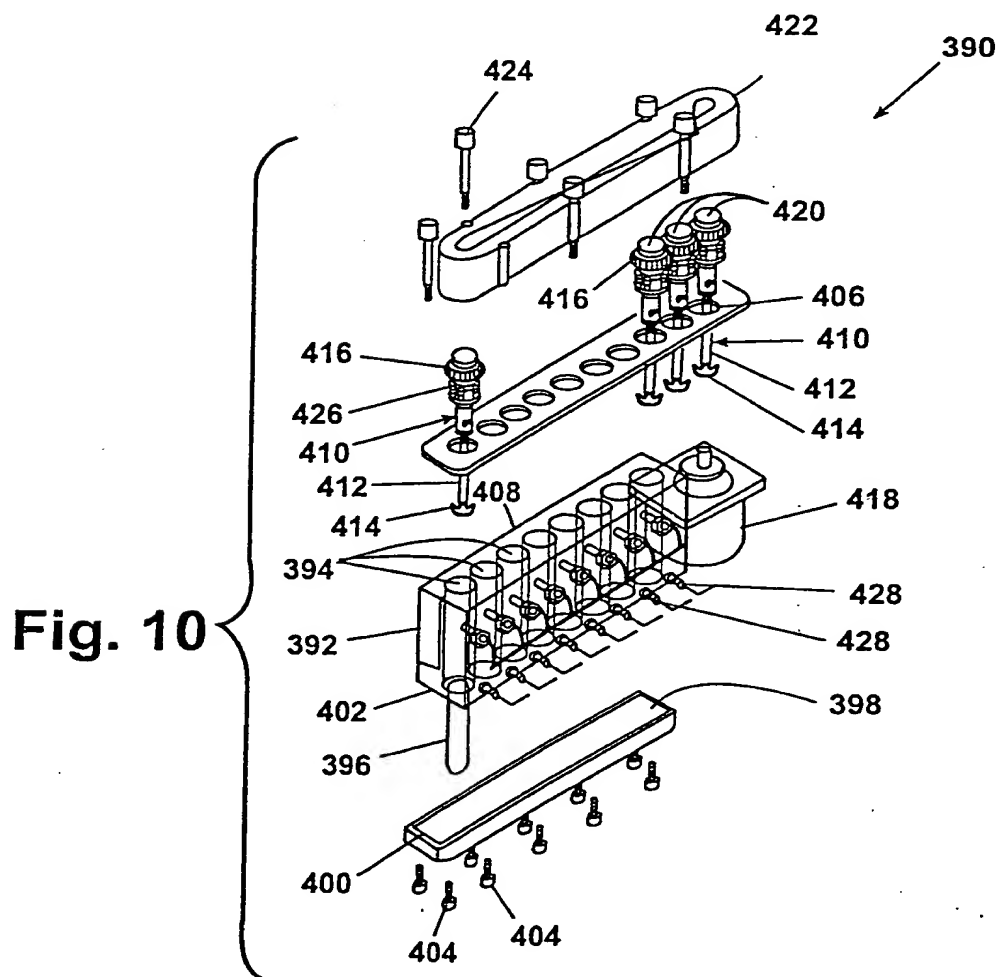


Fig. 10

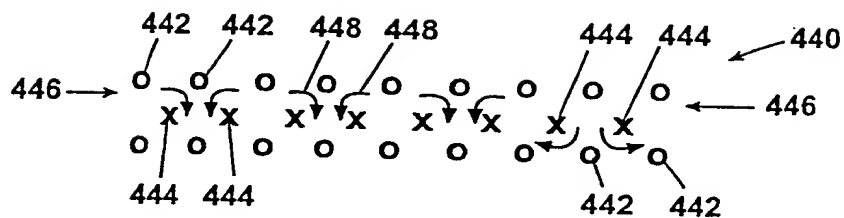


Fig. 11

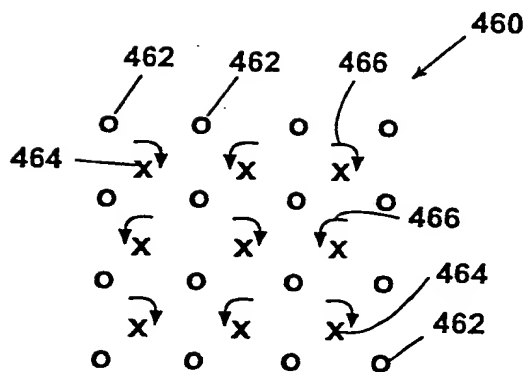


Fig. 12

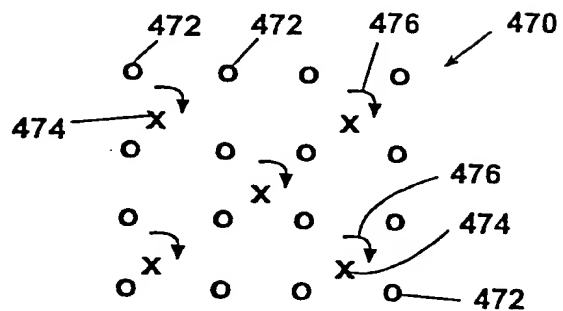


Fig. 13

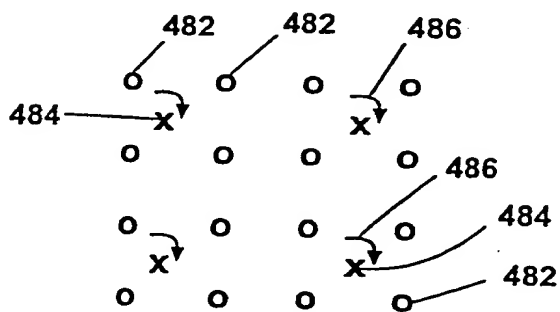
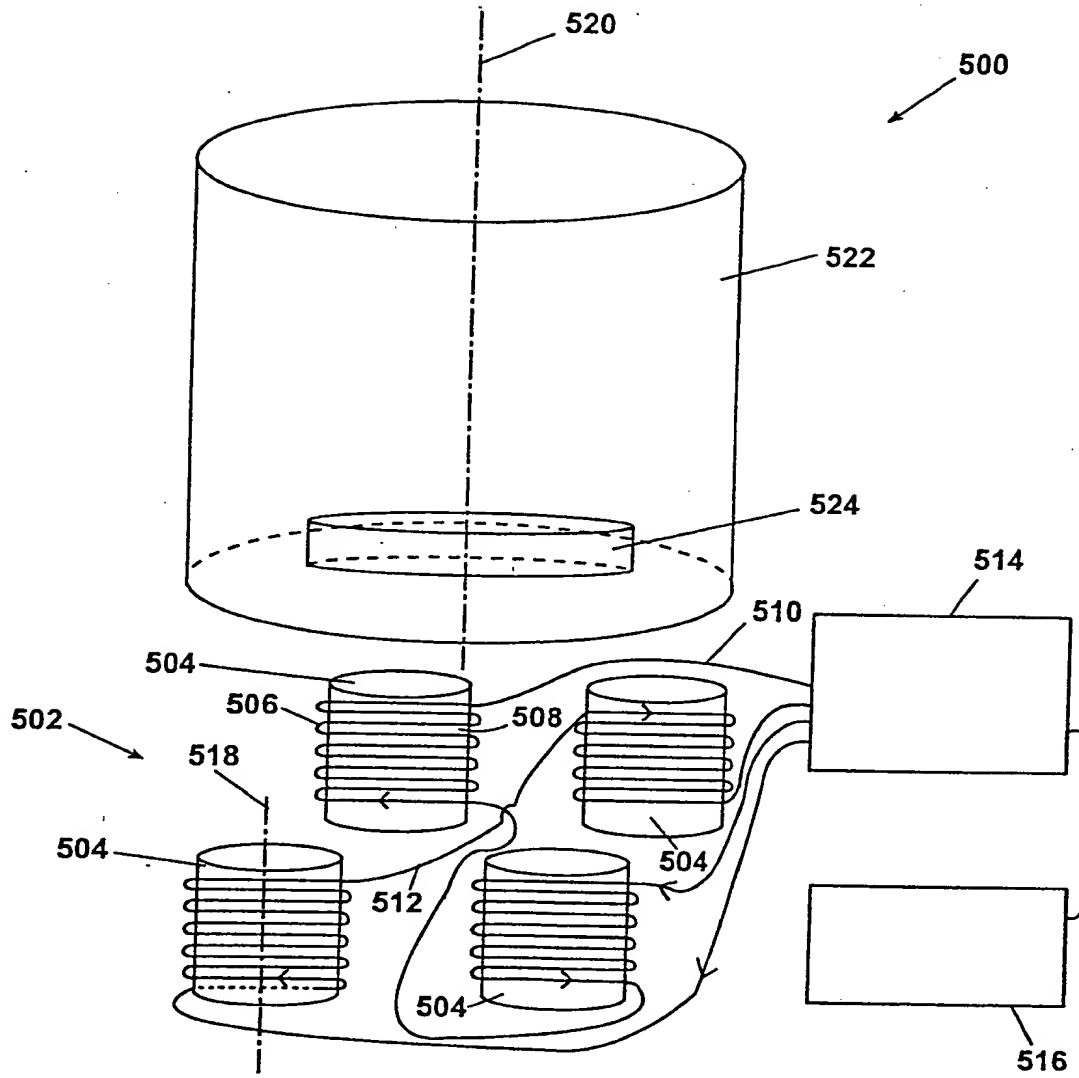


Fig. 14

**Fig. 15**

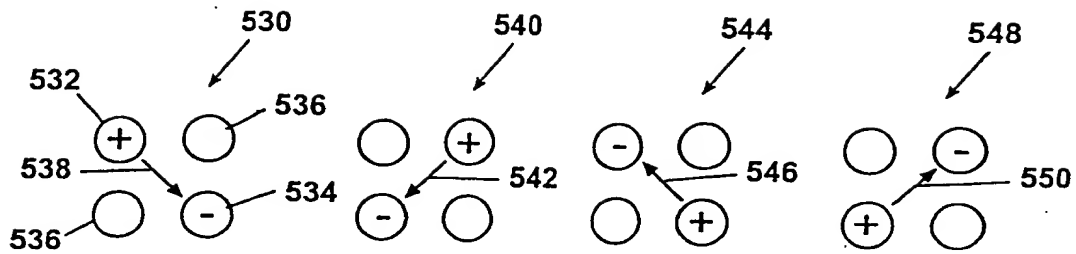


Fig. 16

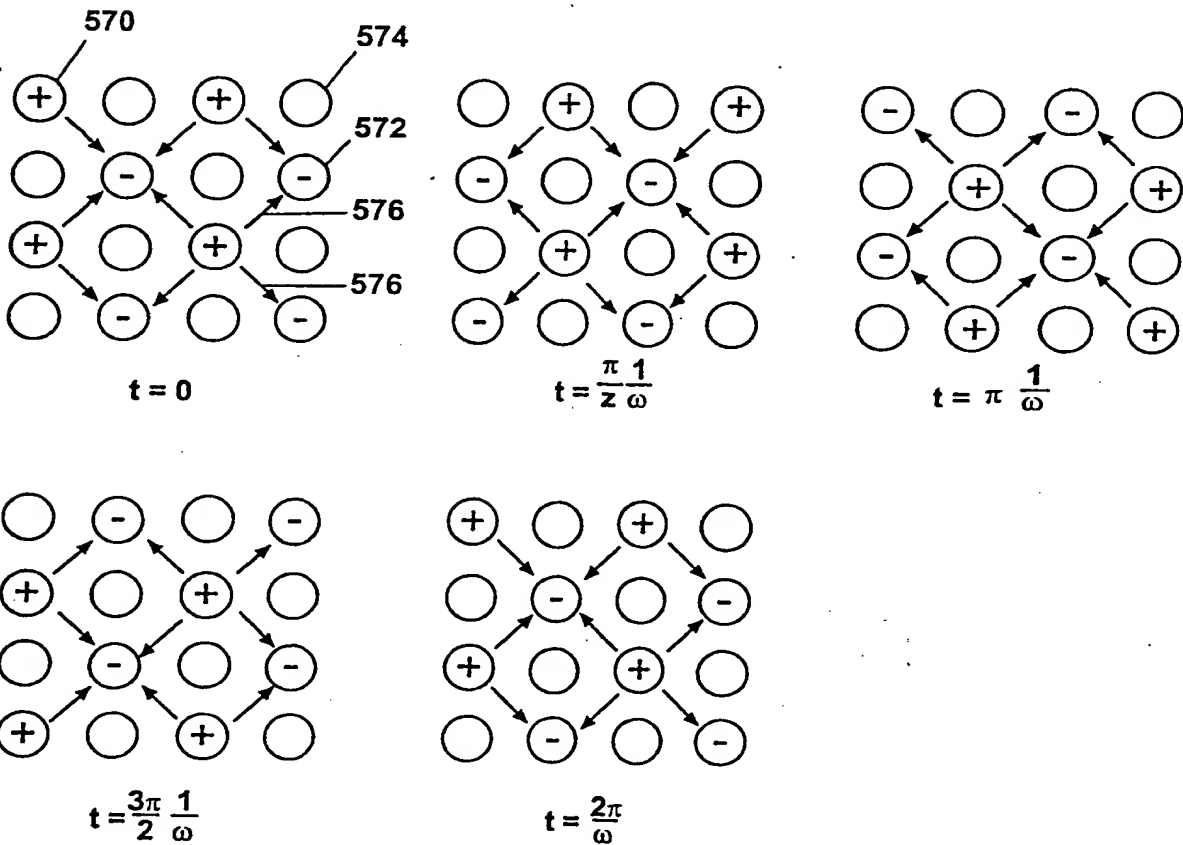


Fig. 17

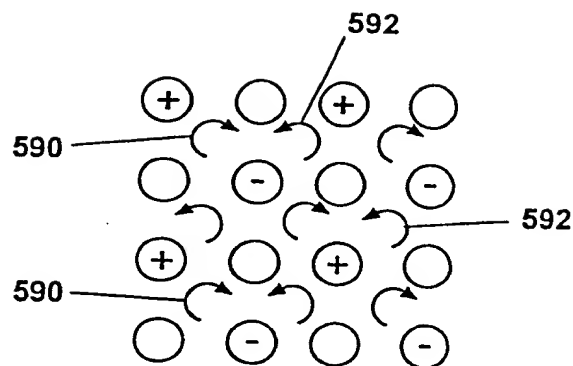


Fig. 18

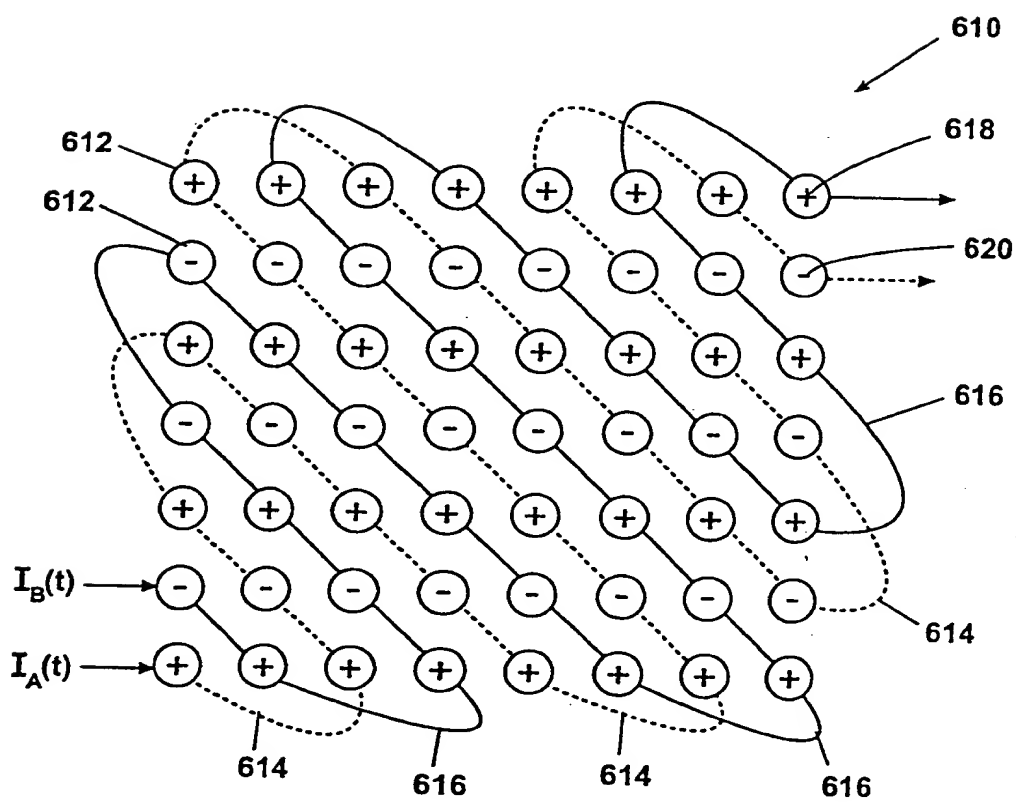


Fig. 19

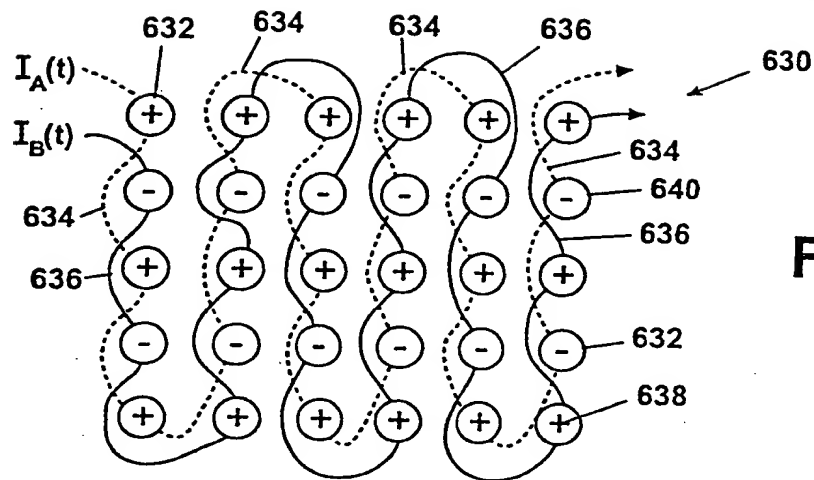


Fig. 20

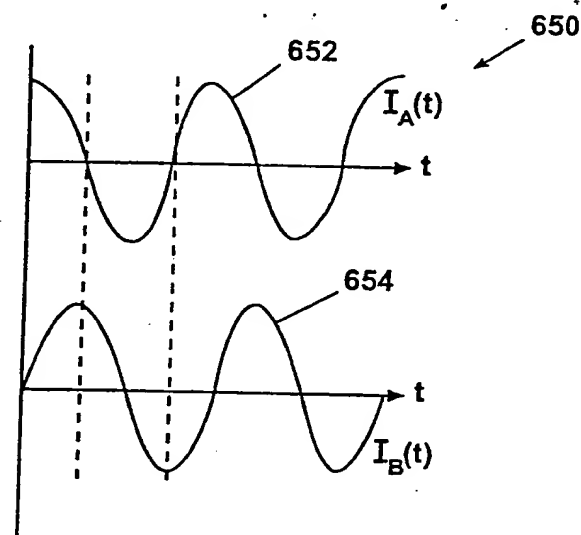


Fig. 21

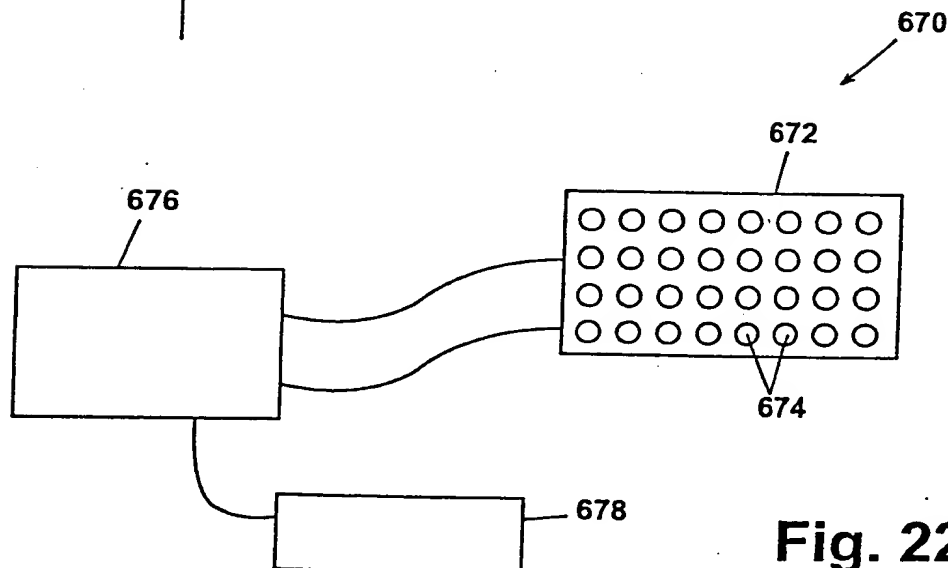


Fig. 22

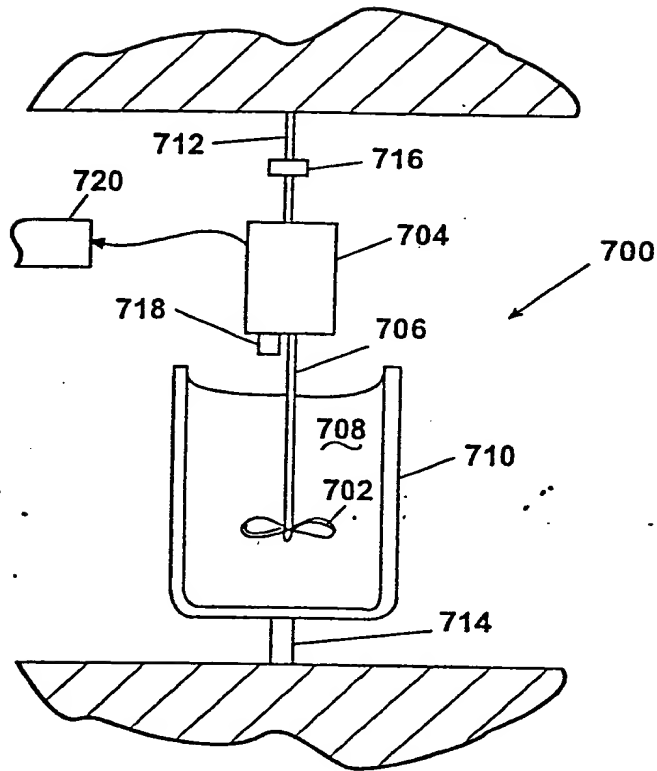


Fig. 23

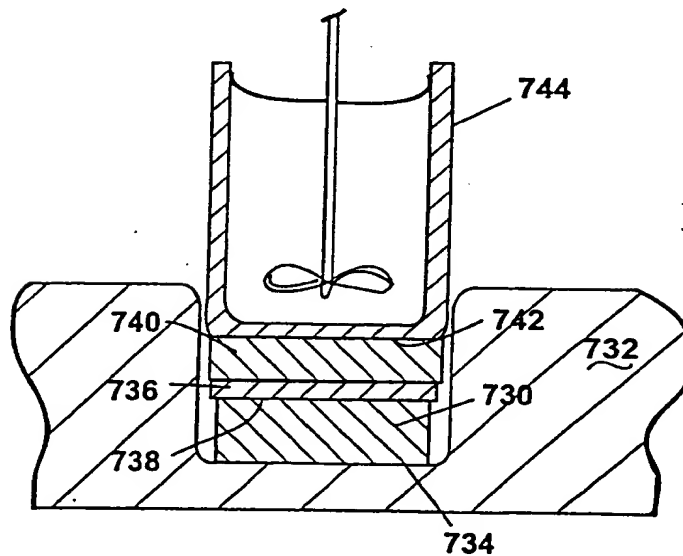


Fig. 24

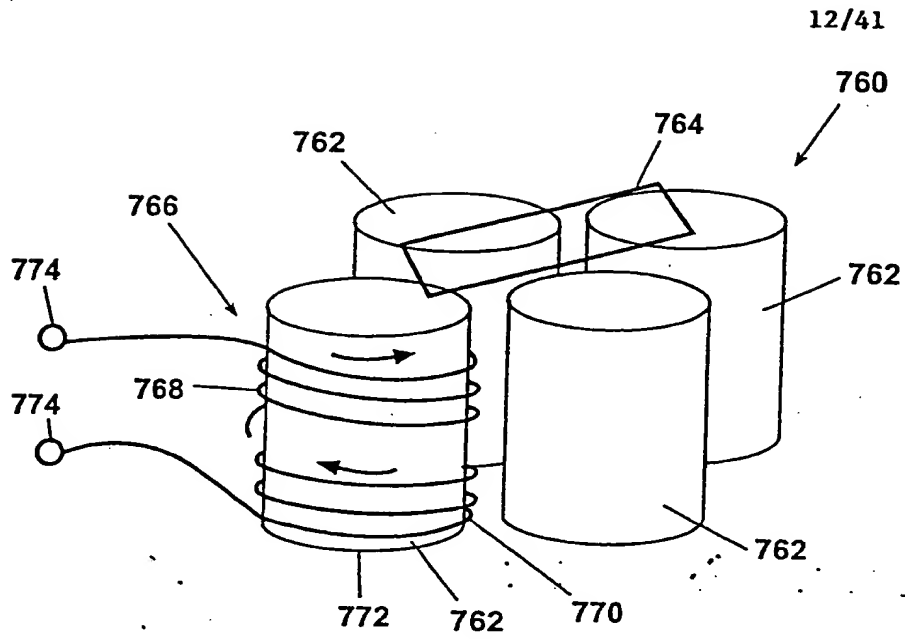


Fig. 25

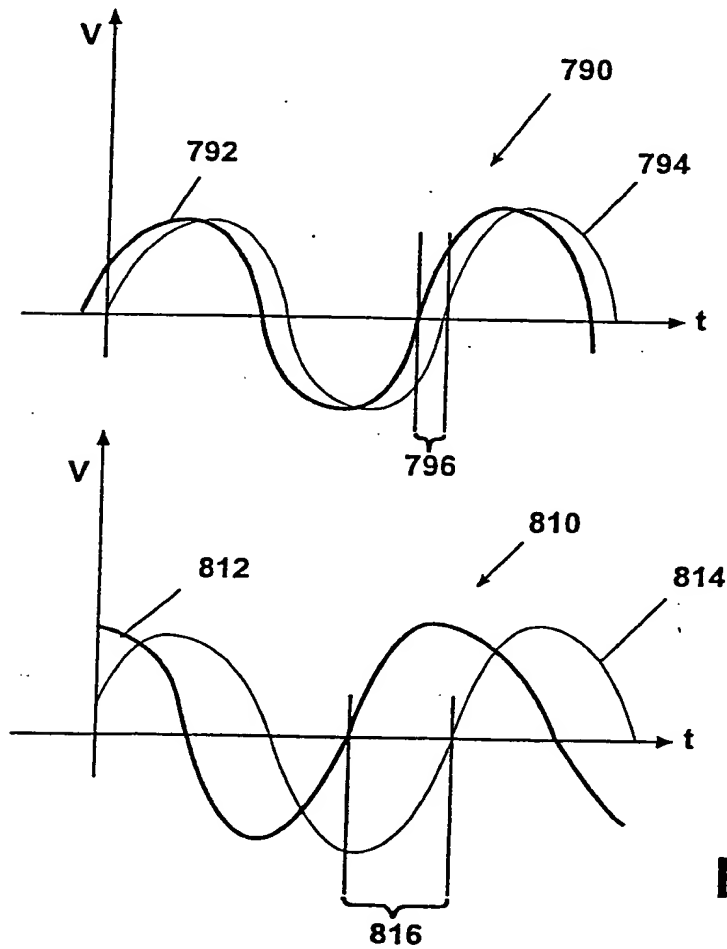


Fig. 26

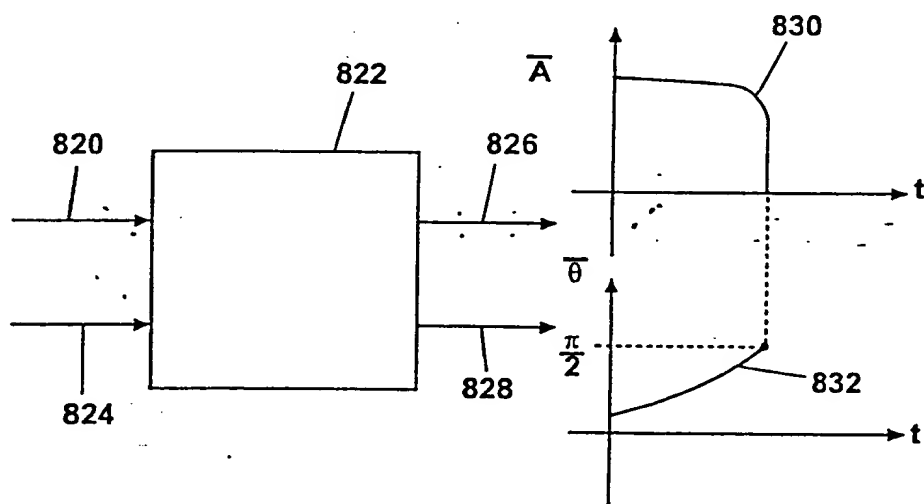


Fig. 27

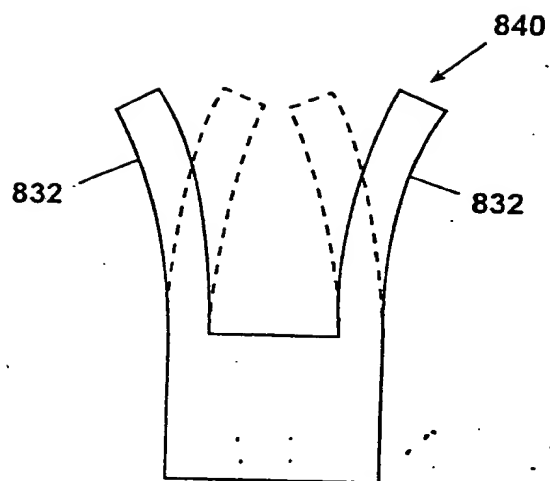


Fig. 28

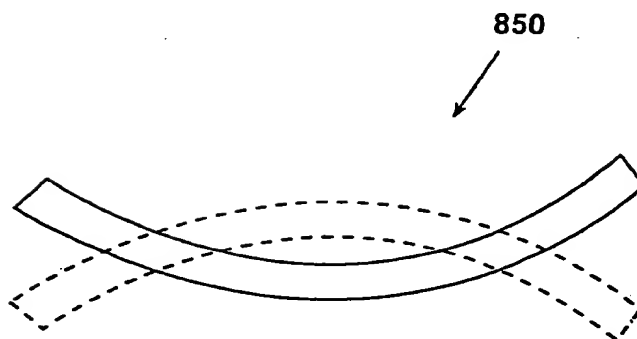


Fig. 29

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870

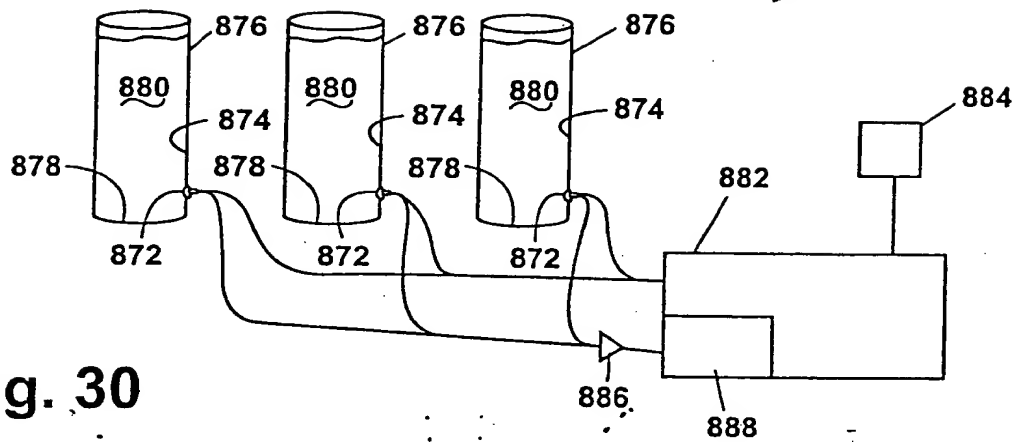


Fig. 30

910

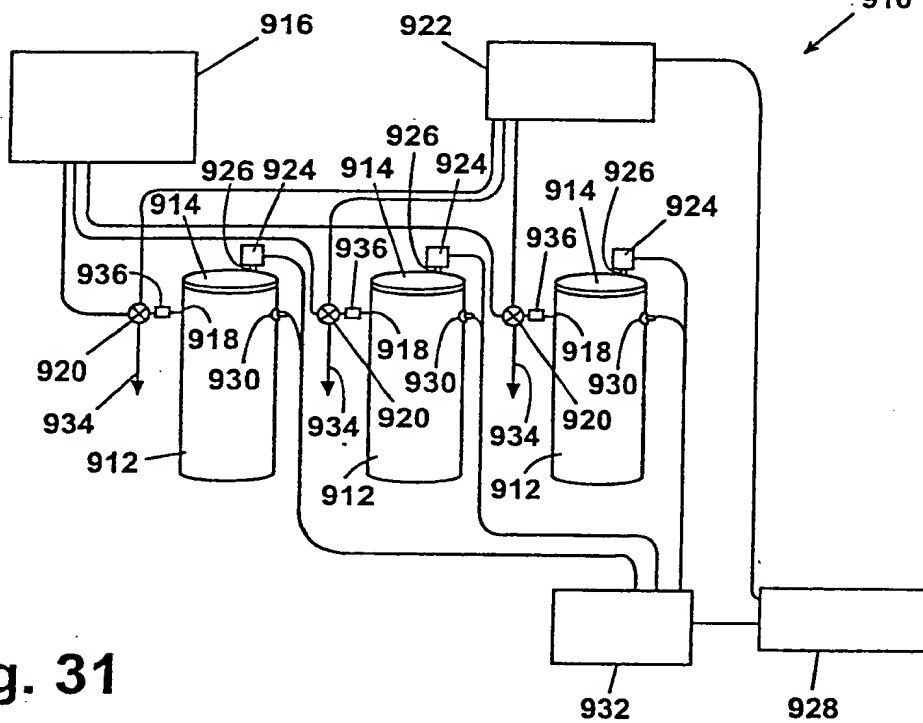


Fig. 31

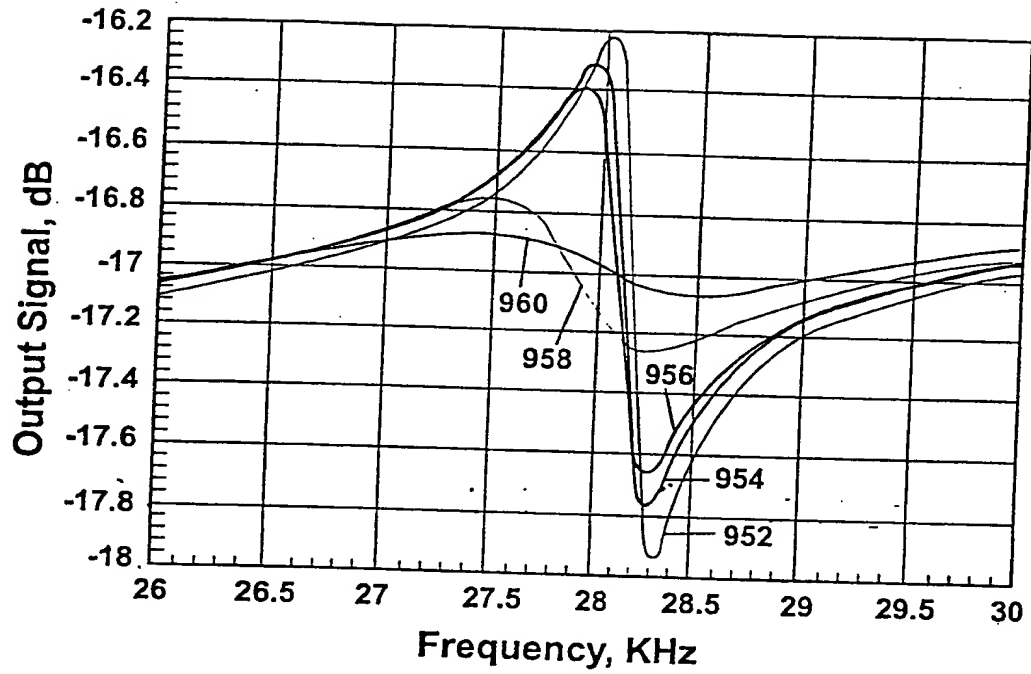


Fig. 32

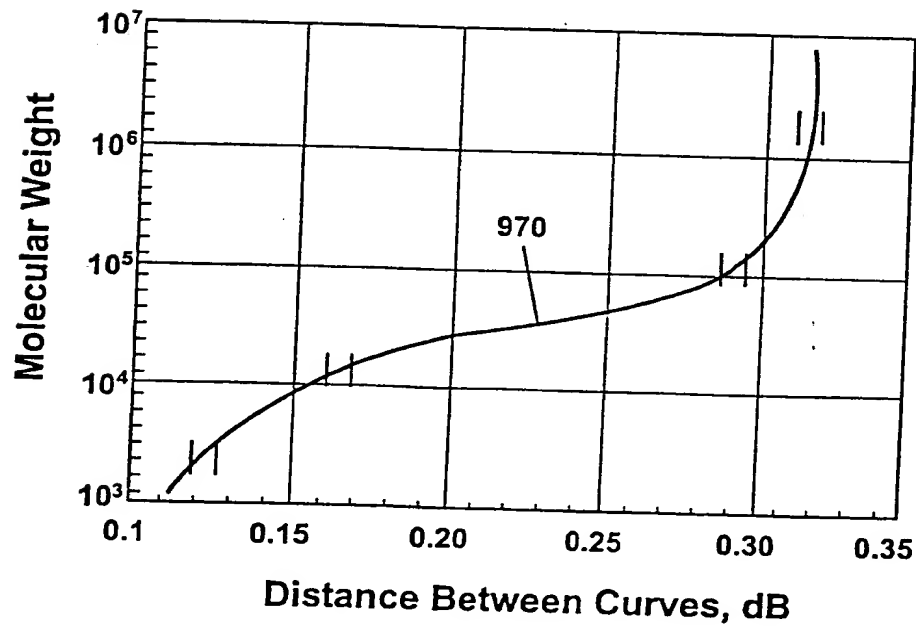


Fig. 33

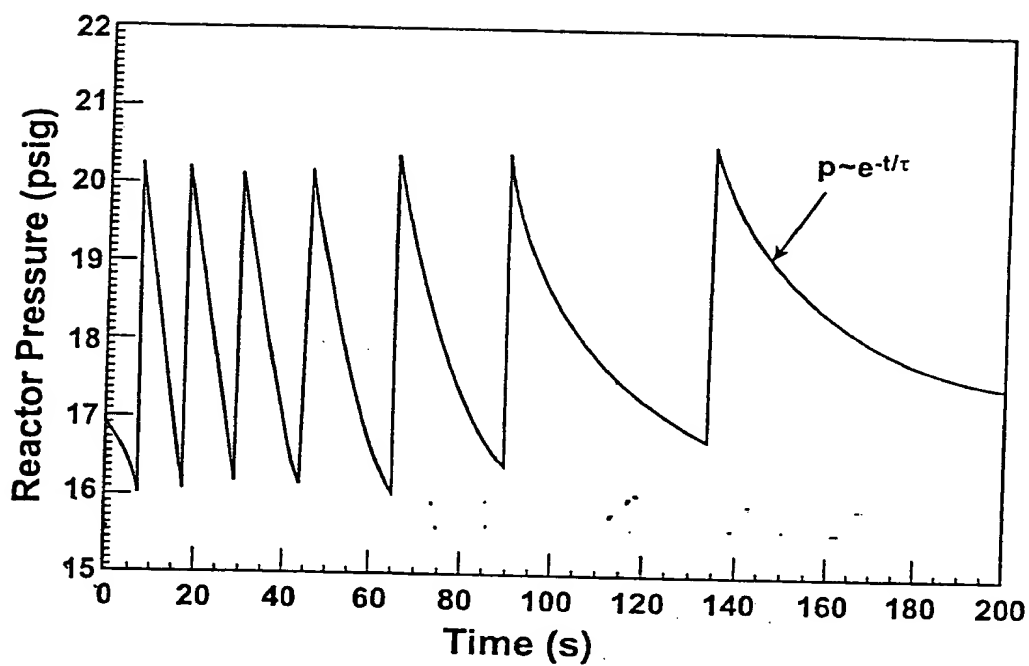


Fig. 34

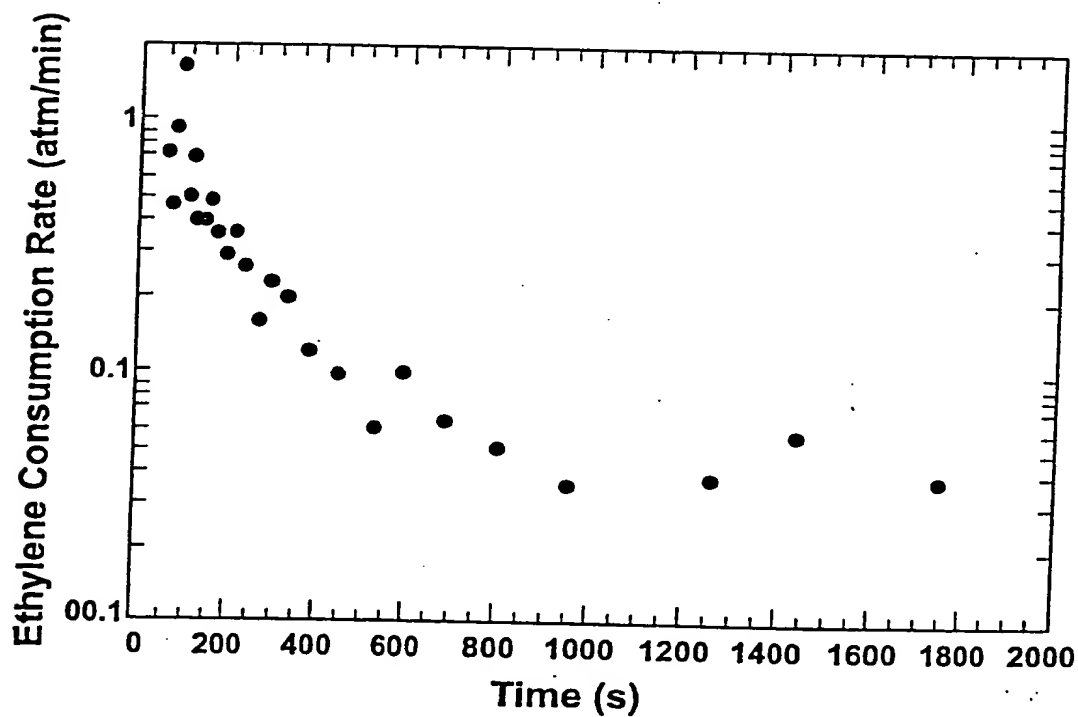


Fig. 35

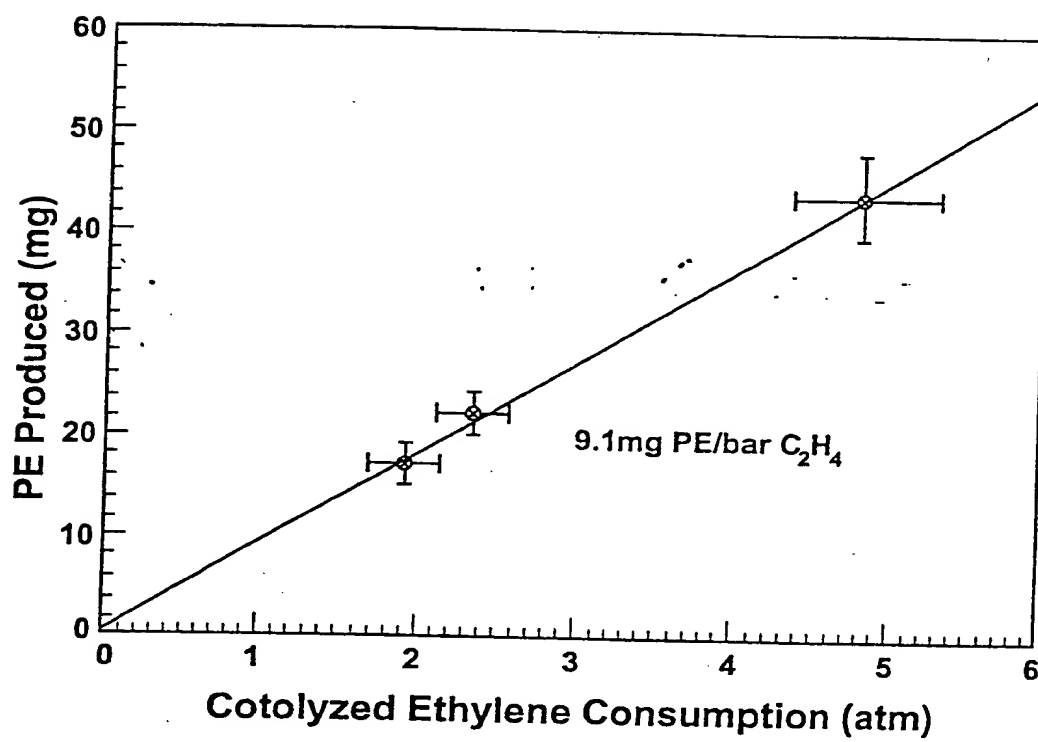


Fig. 36

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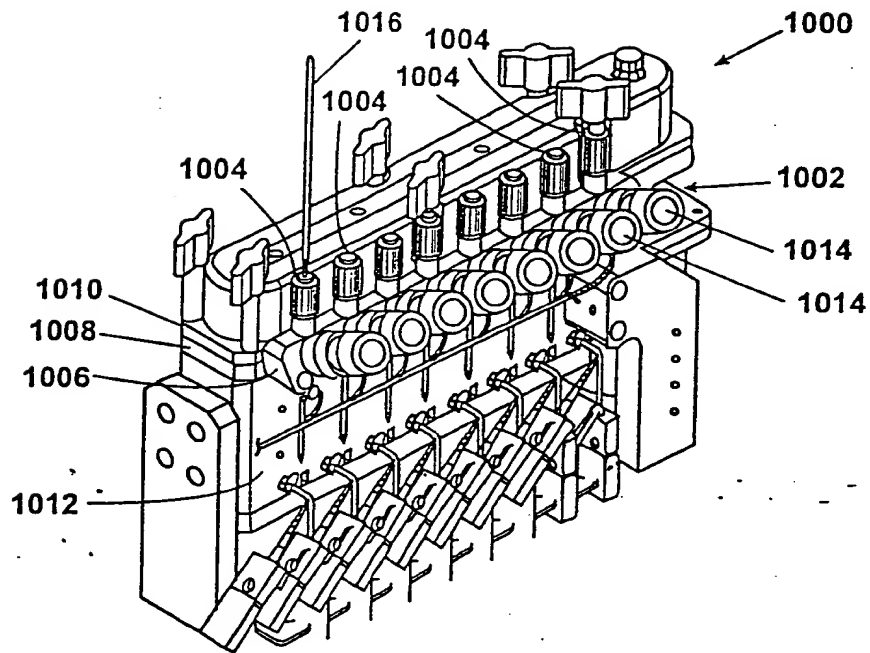


Fig. 37

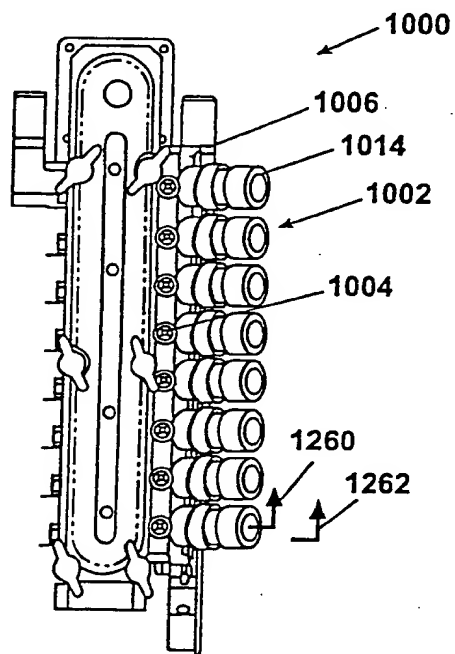


Fig. 46

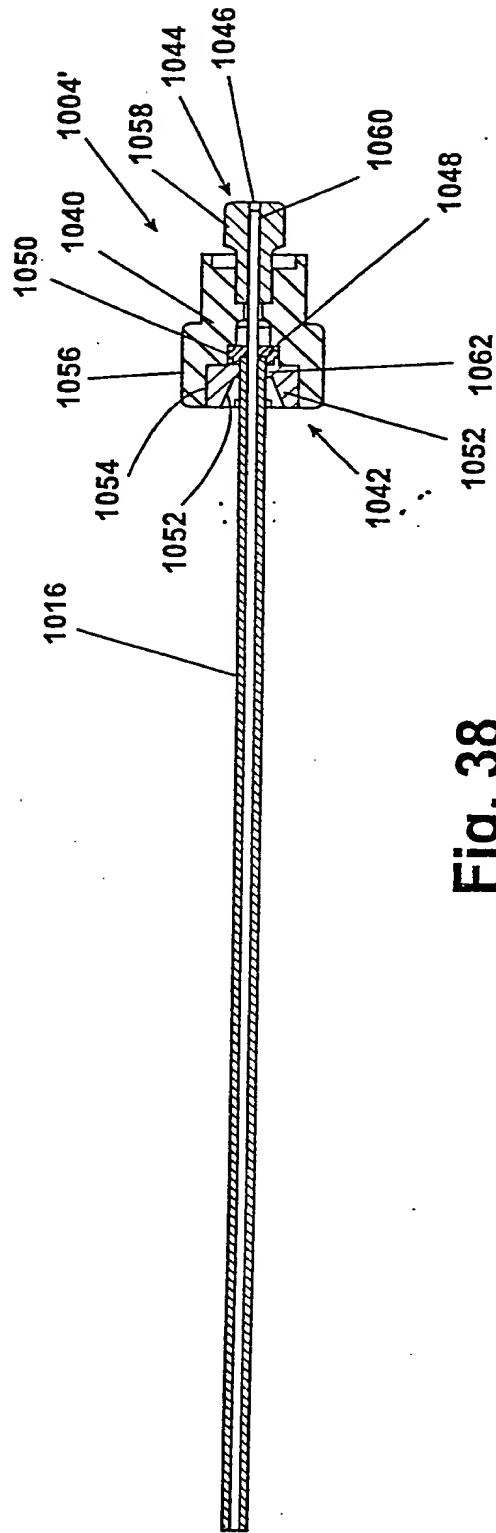


Fig. 38

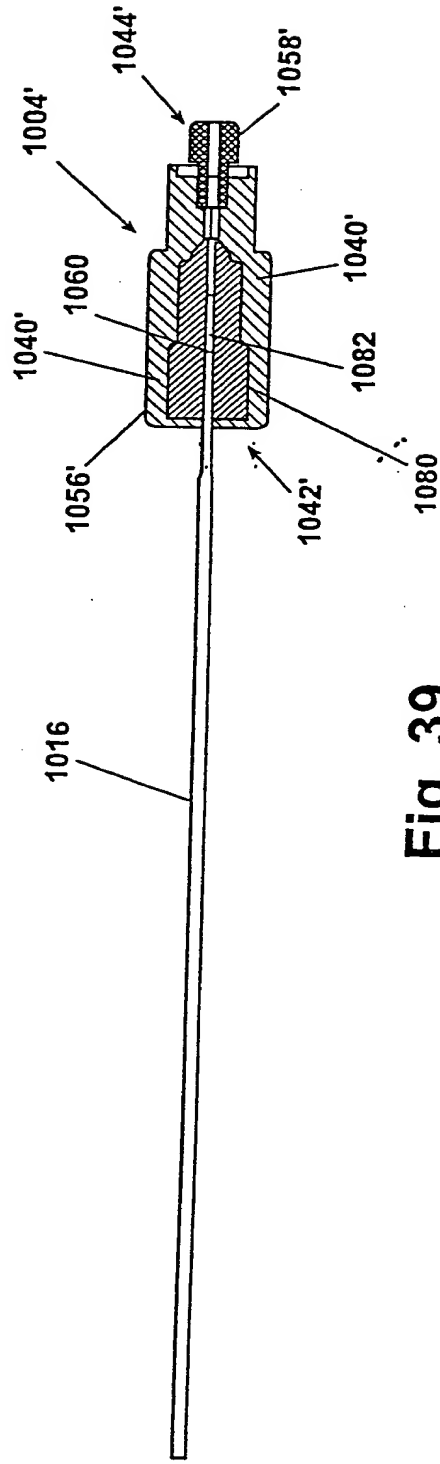


Fig. 39

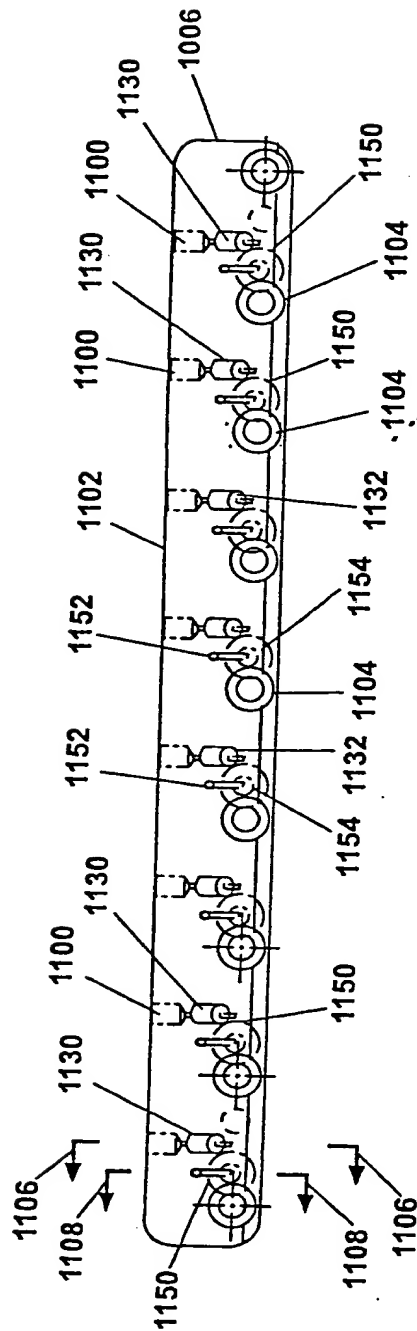


Fig. 40

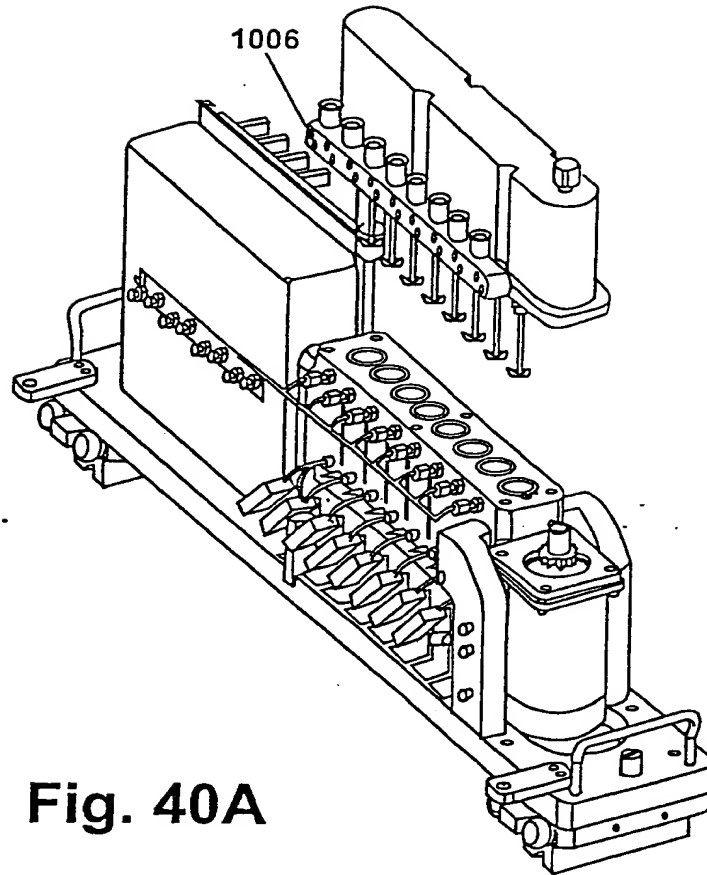


Fig. 40A

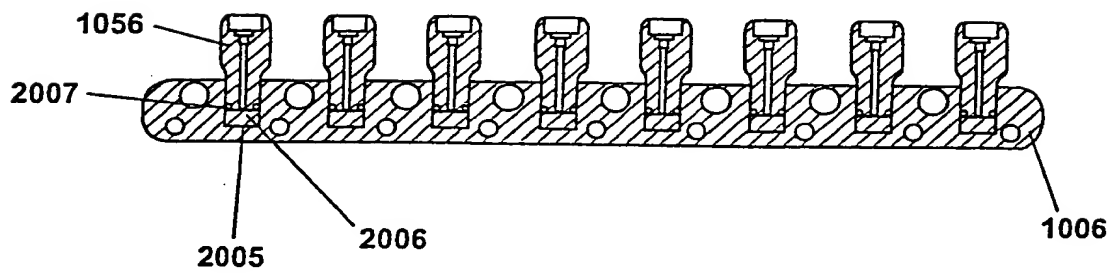


Fig. 40B

Fig. 41

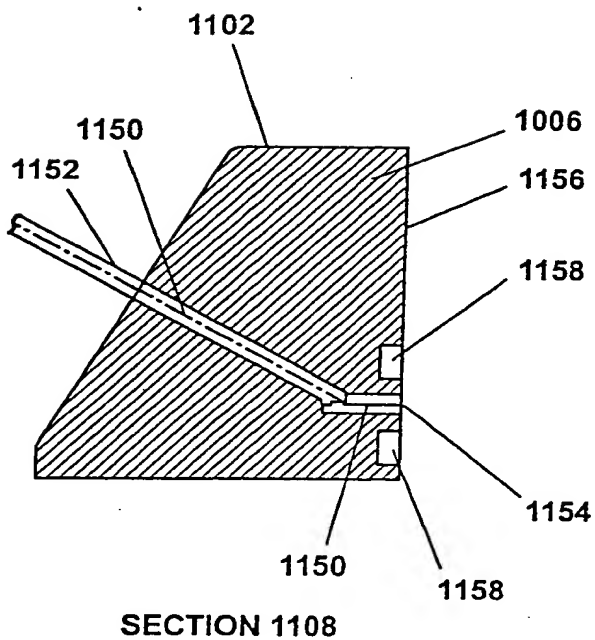
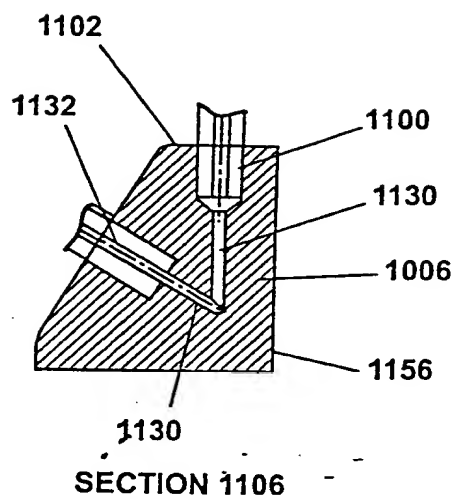


Fig. 42

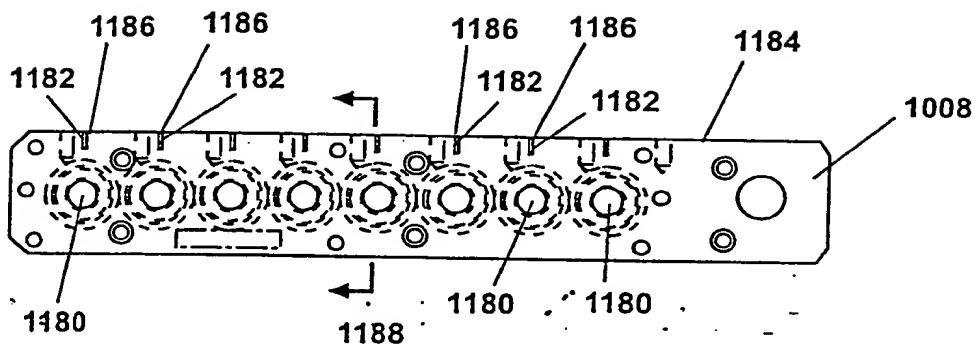


Fig. 43

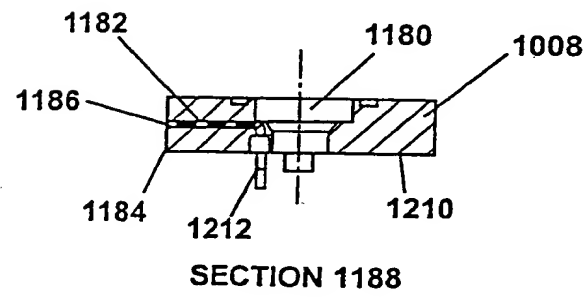


Fig. 44

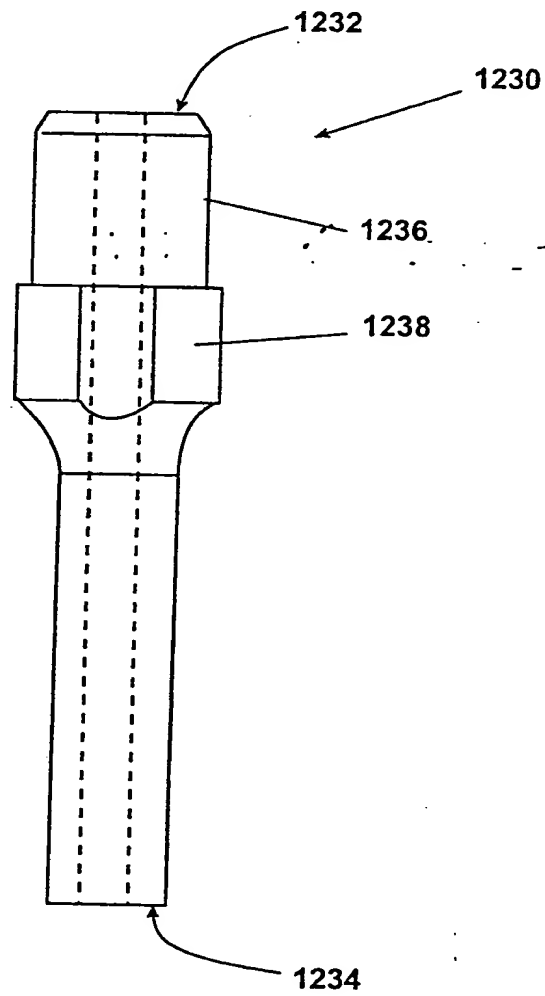


Fig. 45

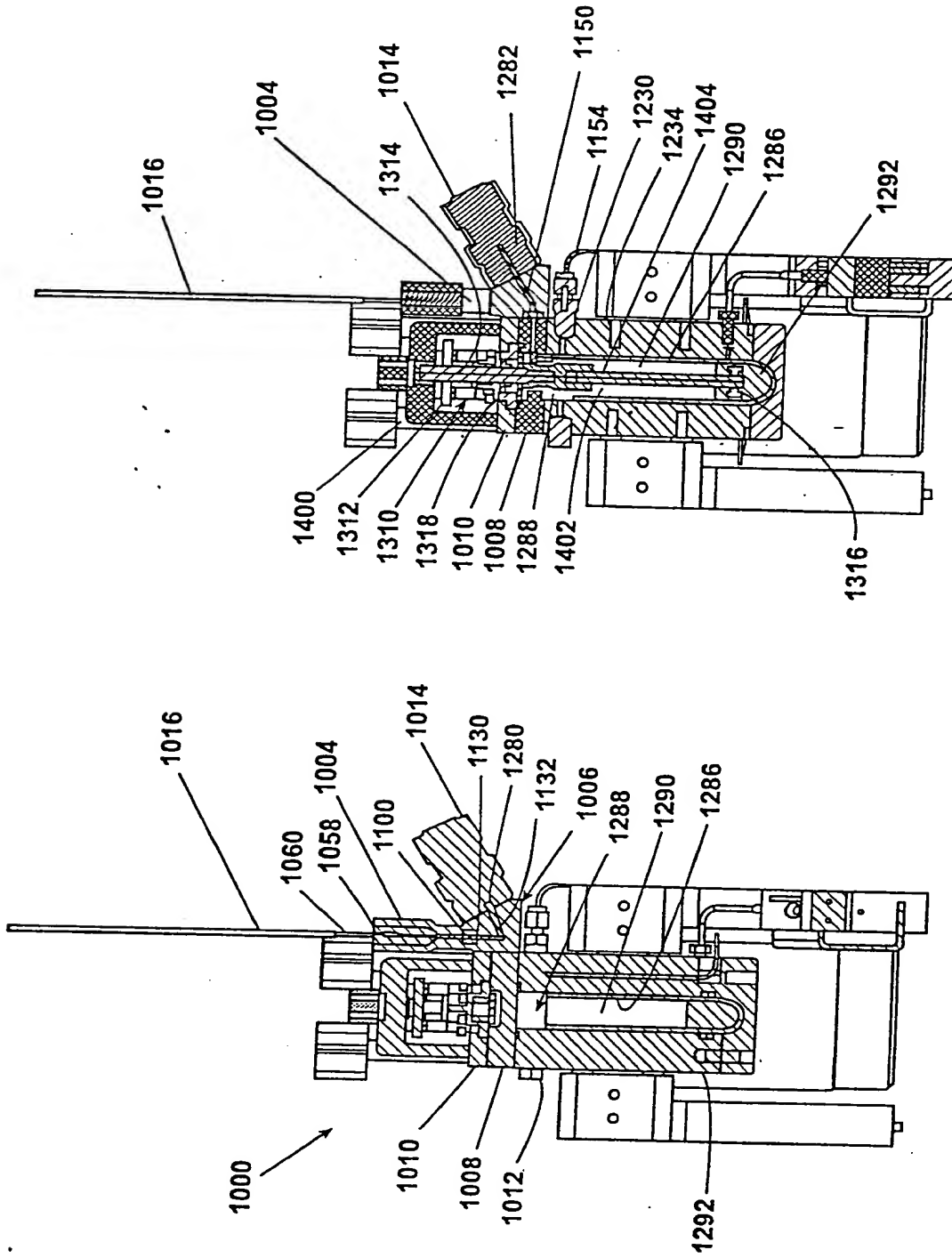


Fig. 47

Fig. 48

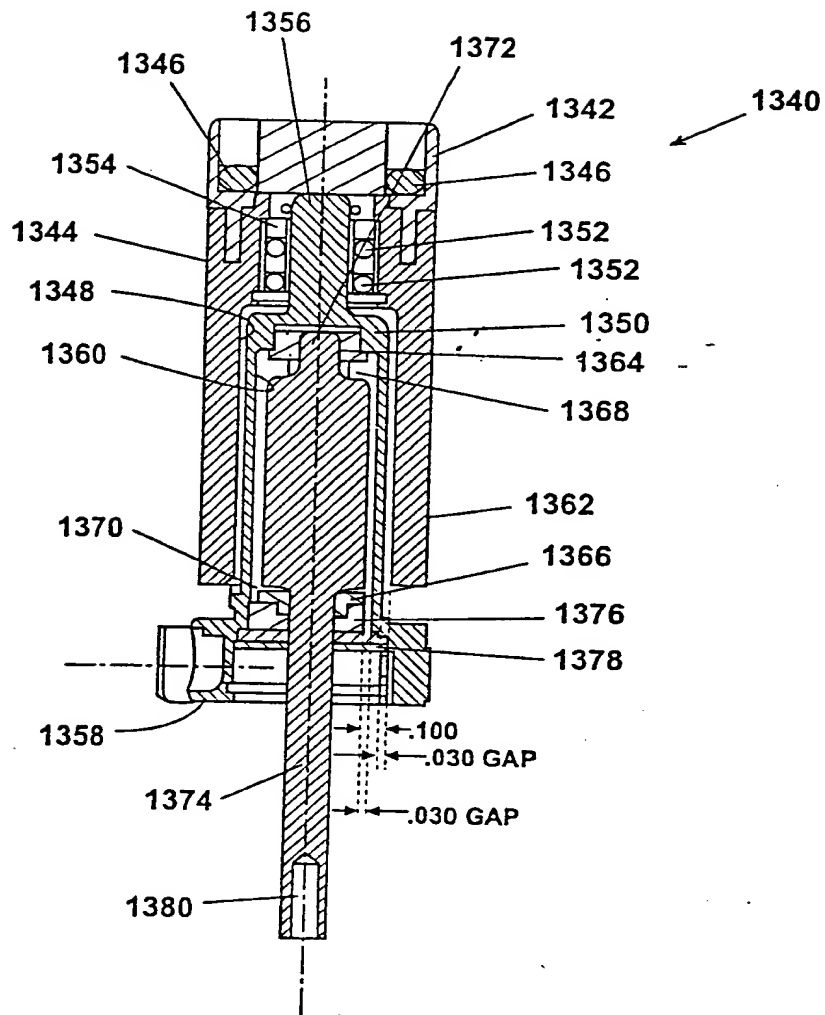


Fig. 49

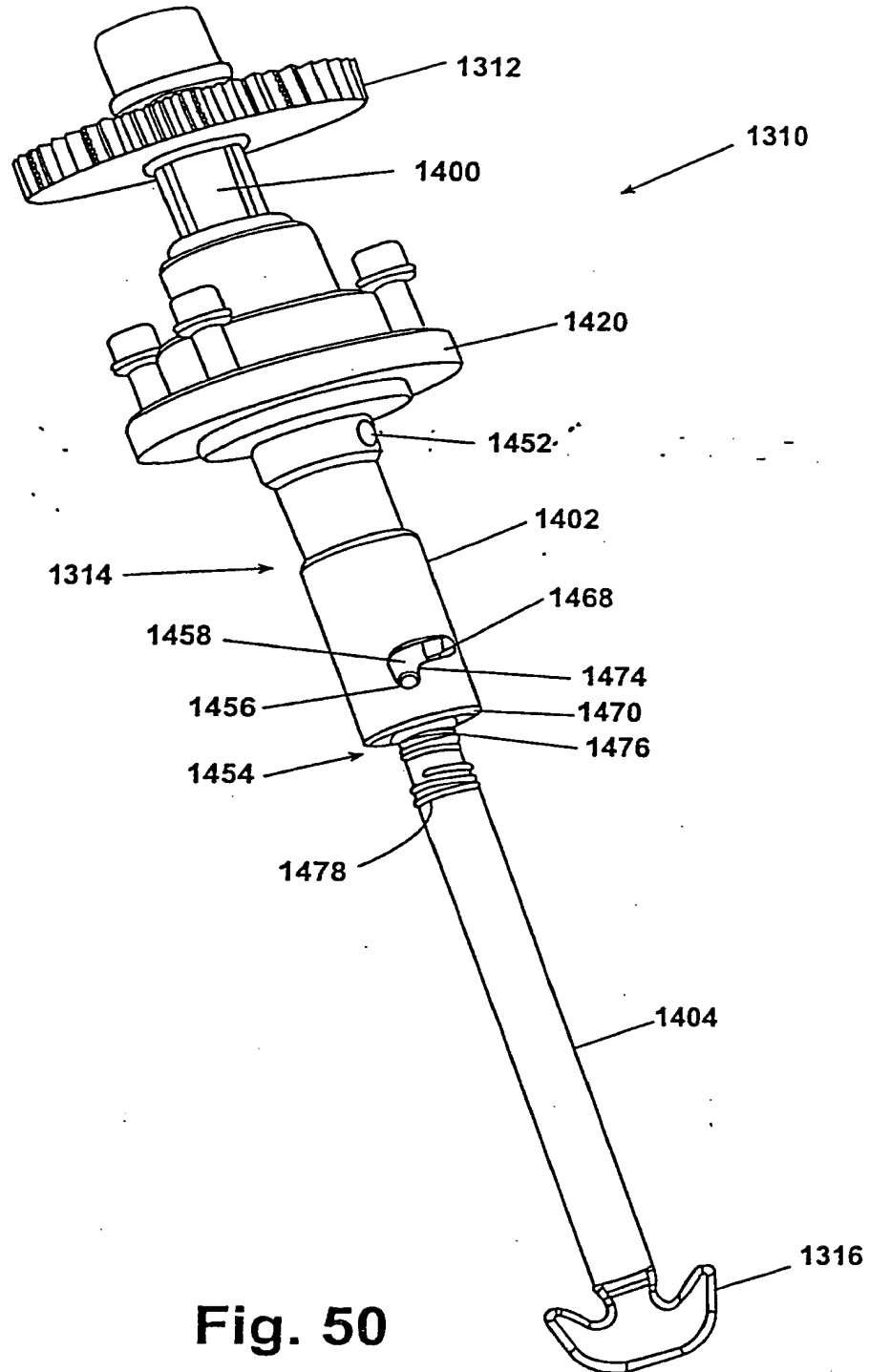


Fig. 50

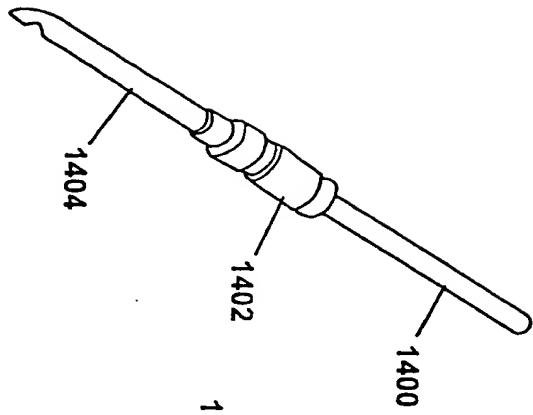


Fig. 50A

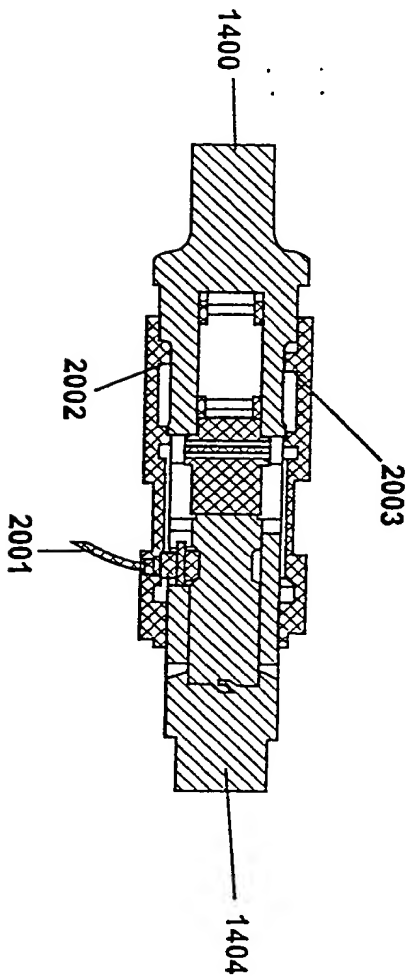


Fig. 50B

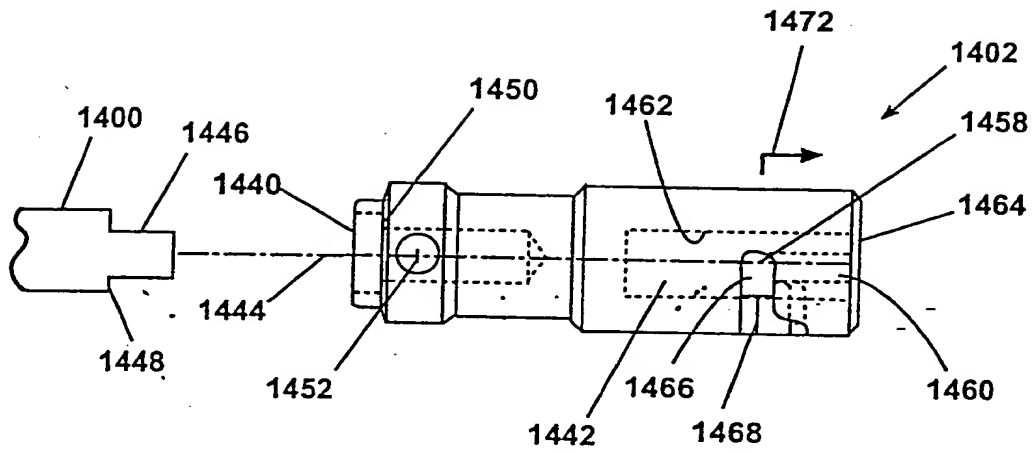
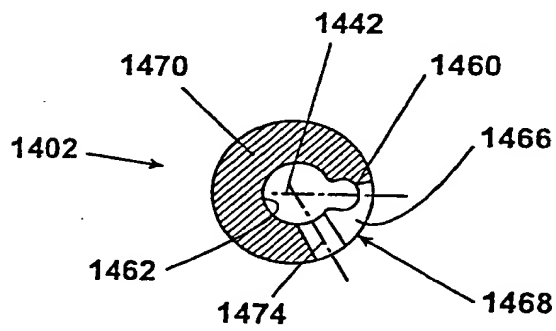


Fig. 51



SECTION 1472

Fig. 52

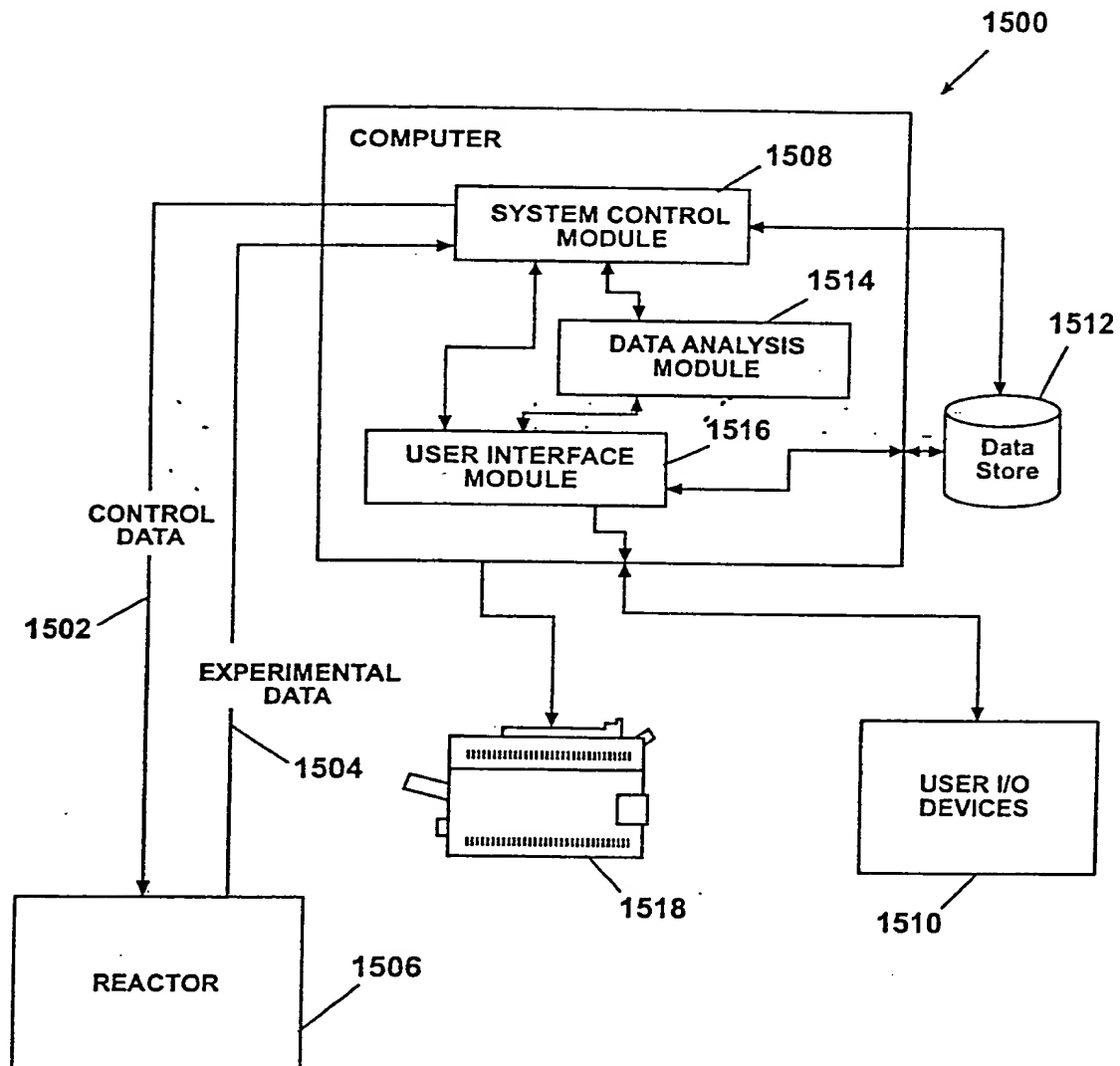


Fig. 53

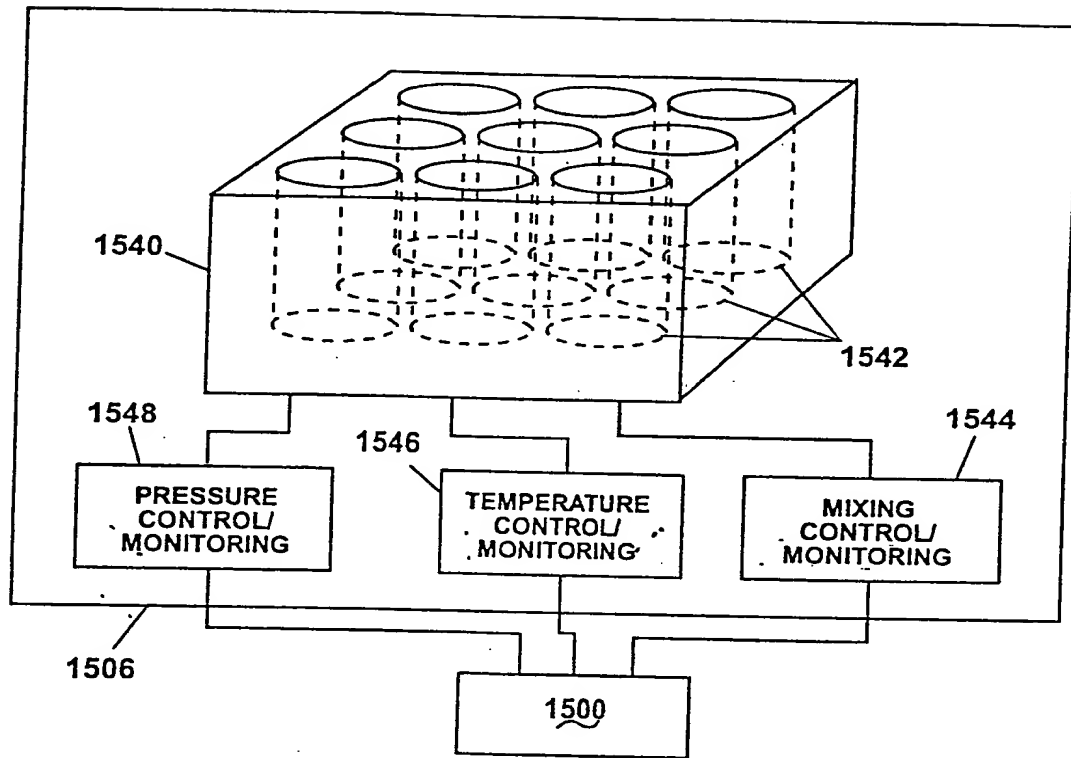


Fig. 54

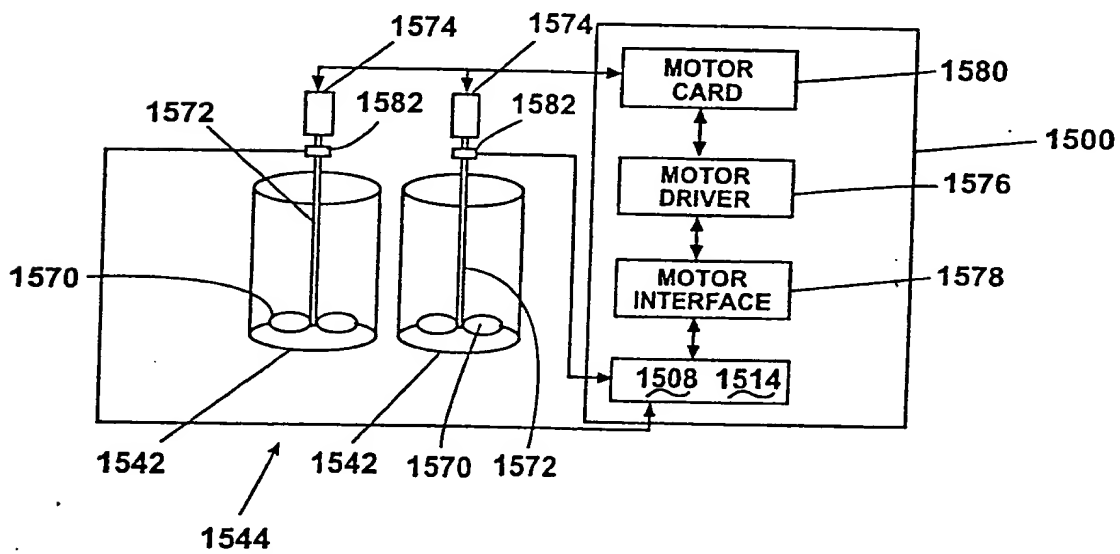


Fig. 55

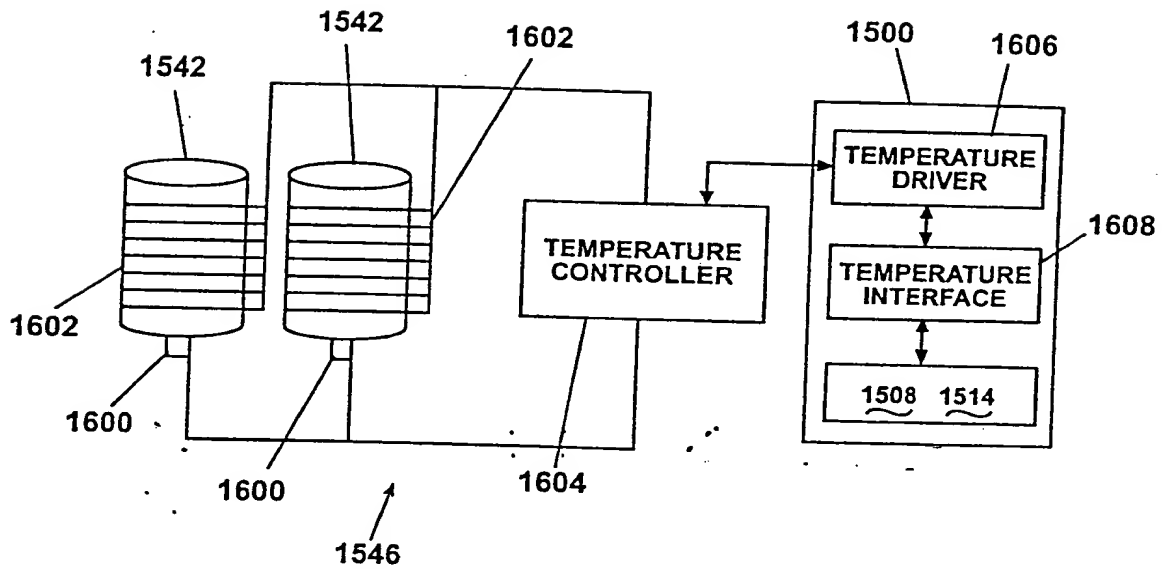


Fig. 56

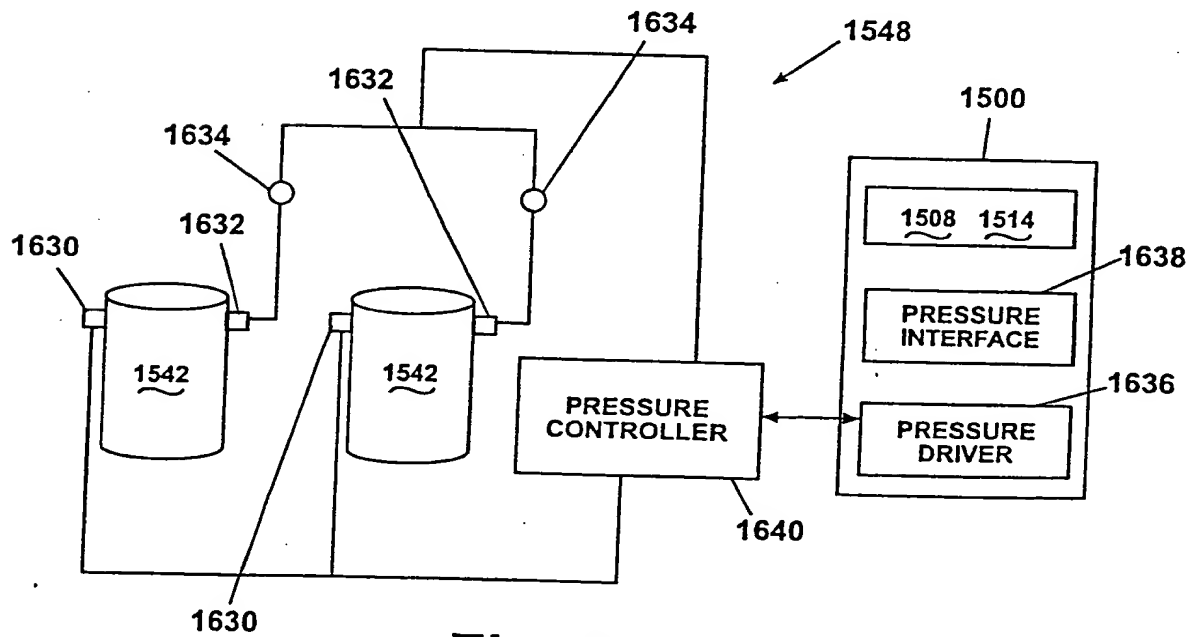
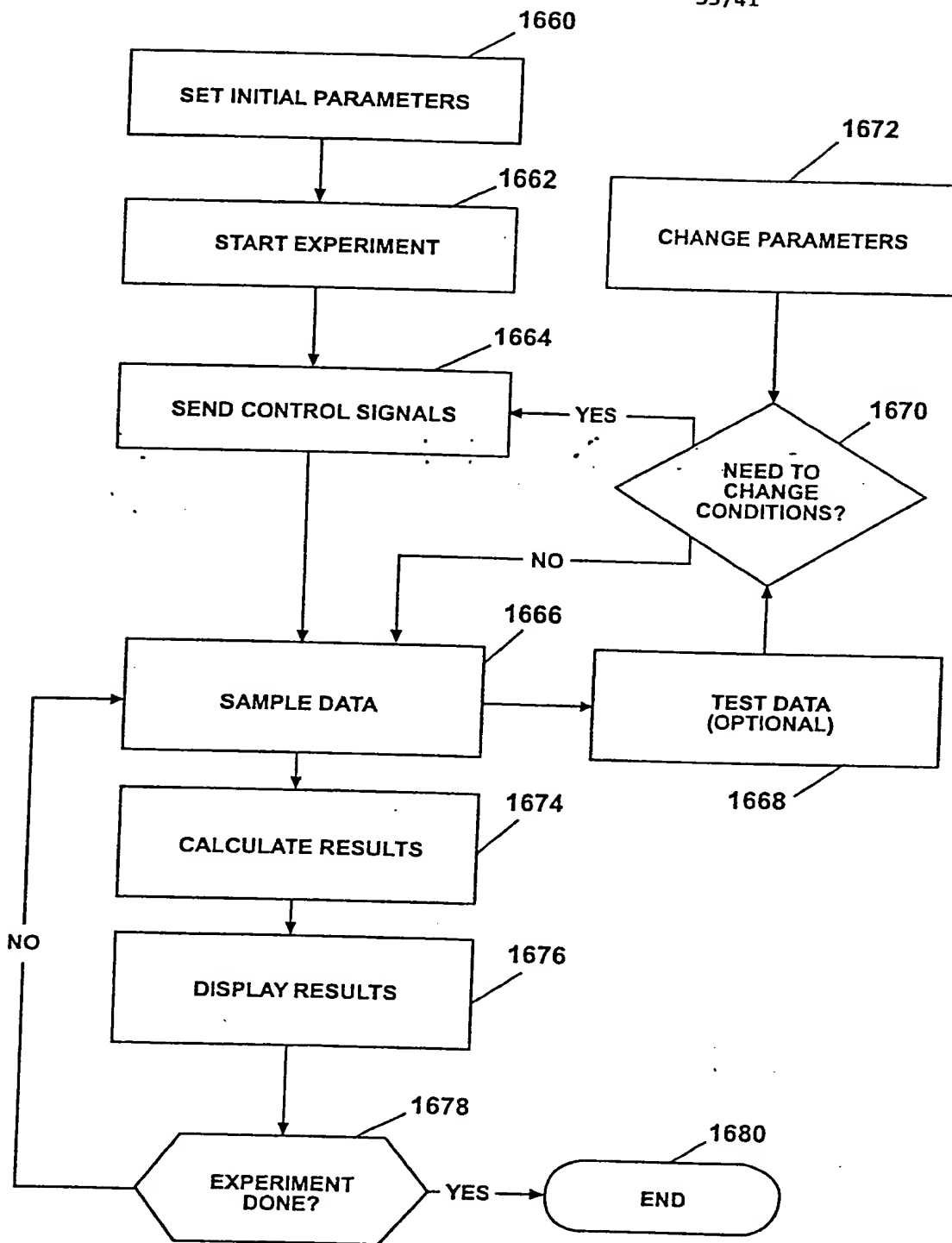
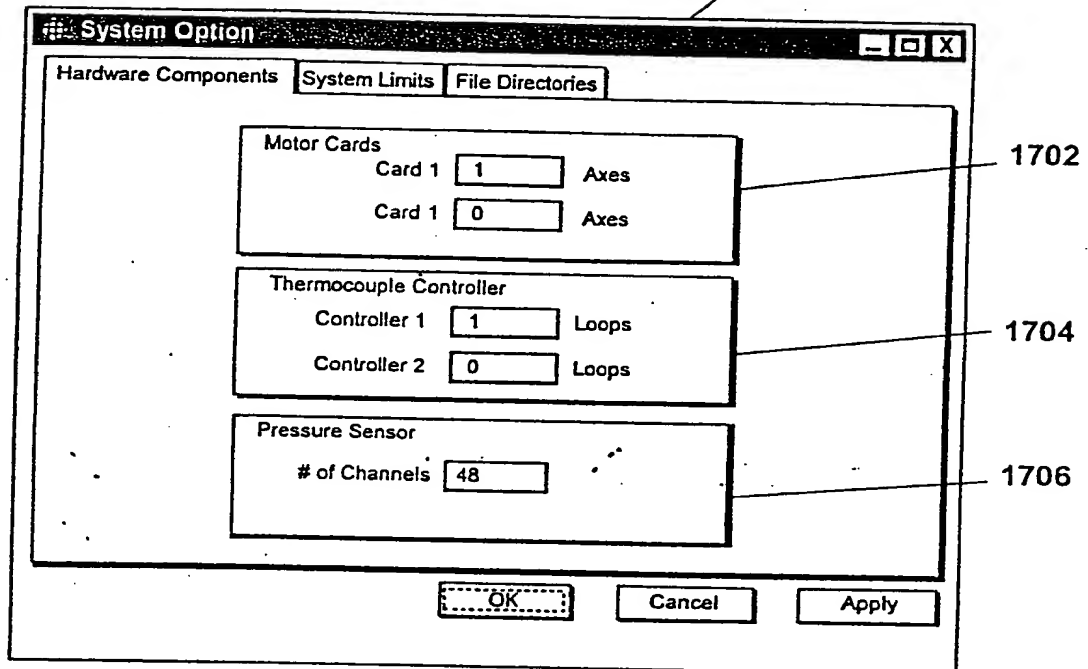


Fig. 57

**Fig. 58**

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1700



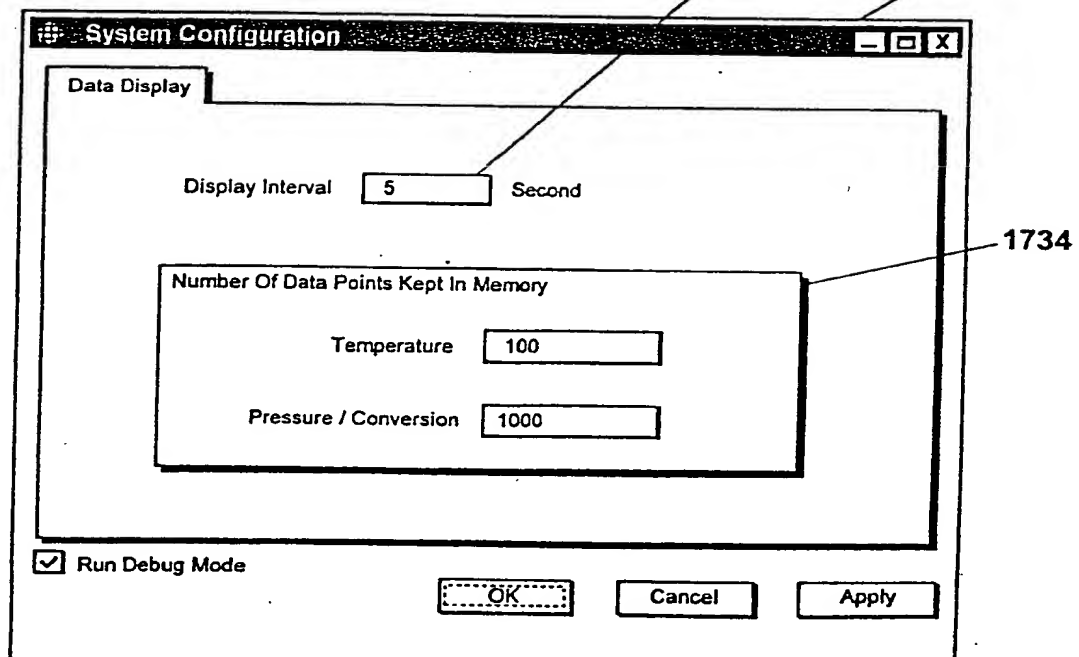
The 'System Option' dialog box features three tabs: 'Hardware Components', 'System Limits', and 'File Directories'. The 'Hardware Components' tab is active, showing three sections: 'Motor Cards', 'Thermocouple Controller', and 'Pressure Sensor'. Each section contains two rows of input fields. The 'Motor Cards' section has 'Card 1' with values '1' and '0', both labeled 'Axes'. The 'Thermocouple Controller' section has 'Controller 1' with value '1' and 'Controller 2' with value '0', both labeled 'Loops'. The 'Pressure Sensor' section has a '# of Channels' field with value '48'. At the bottom are 'OK', 'Cancel', and 'Apply' buttons. Reference numbers 1702, 1704, and 1706 point to the input fields in the Motor Cards, Thermocouple Controller, and Pressure Sensor sections respectively.

Section	Field	Value	Unit
Motor Cards	Card 1	1	Axes
	Card 1	0	Axes
Thermocouple Controller	Controller 1	1	Loops
	Controller 2	0	Loops
Pressure Sensor	# of Channels	48	

Fig. 59

1732

1730



The 'System Configuration' dialog box has a 'Data Display' tab. It contains a 'Display Interval' field with value '5' and unit 'Second'. Below this is a 'Number Of Data Points Kept In Memory' section with two rows: 'Temperature' with value '100' and 'Pressure / Conversion' with value '1000'. At the bottom is a checked checkbox for 'Run Debug Mode' and 'OK', 'Cancel', and 'Apply' buttons. Reference numbers 1732, 1730, and 1734 point to the 'Display Interval' field, the 'Number Of Data Points Kept In Memory' section, and the 'Temperature' input field respectively.

Field	Value	Unit
Display Interval	5	Second
Number Of Data Points Kept In Memory		
Temperature	100	
Pressure / Conversion	1000	

Fig. 60

1760

1762

1764

1774

1776

1768

1770

1772

Reactor Setup

Motor
Speed RPM
Safety Limit (RPM): 3200
☐ Single Direction
☐ Dual Direction

Experiment Time
 Minute

Heater
Set Point F
Safety Limit: 392
Turn Off Temp. F
Sample Rate Hz
Maximum (Hz): 0.1

Pressure
P_{set} psi
Safety Limit (psi): 100
Sample Rate Hz
Maximum (Hz): 5

Gradient
F
Manual

Load Defaults
Save As Defaults
Apply
Cancel

Fig. 61

1800

1802

1802

Temperature

Setpoints

1 2 3 4 5 6

200 200 200 200 200 200

Unit: F
Safety Limit: 392 F

☐ Undo Gradient

OK Cancel

Fig. 62

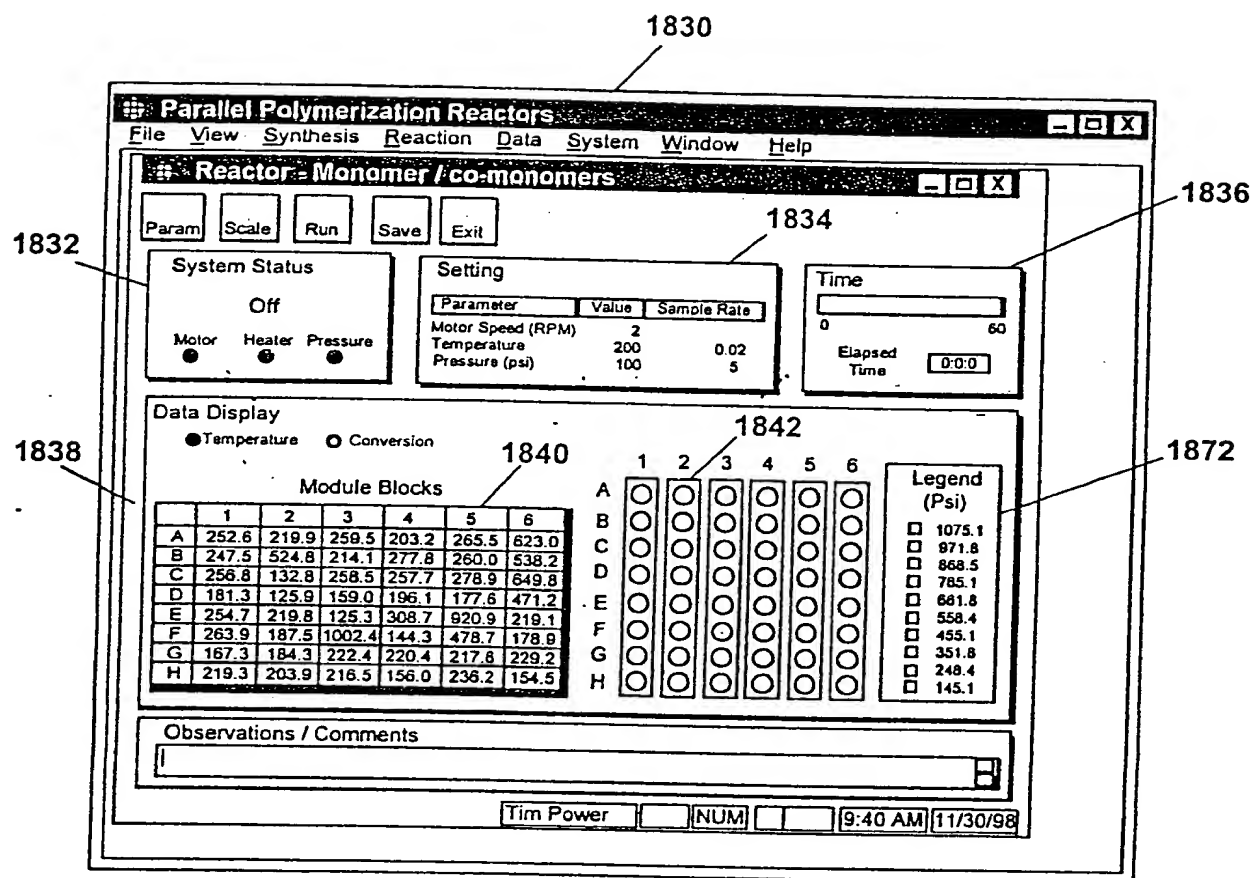


Fig. 63

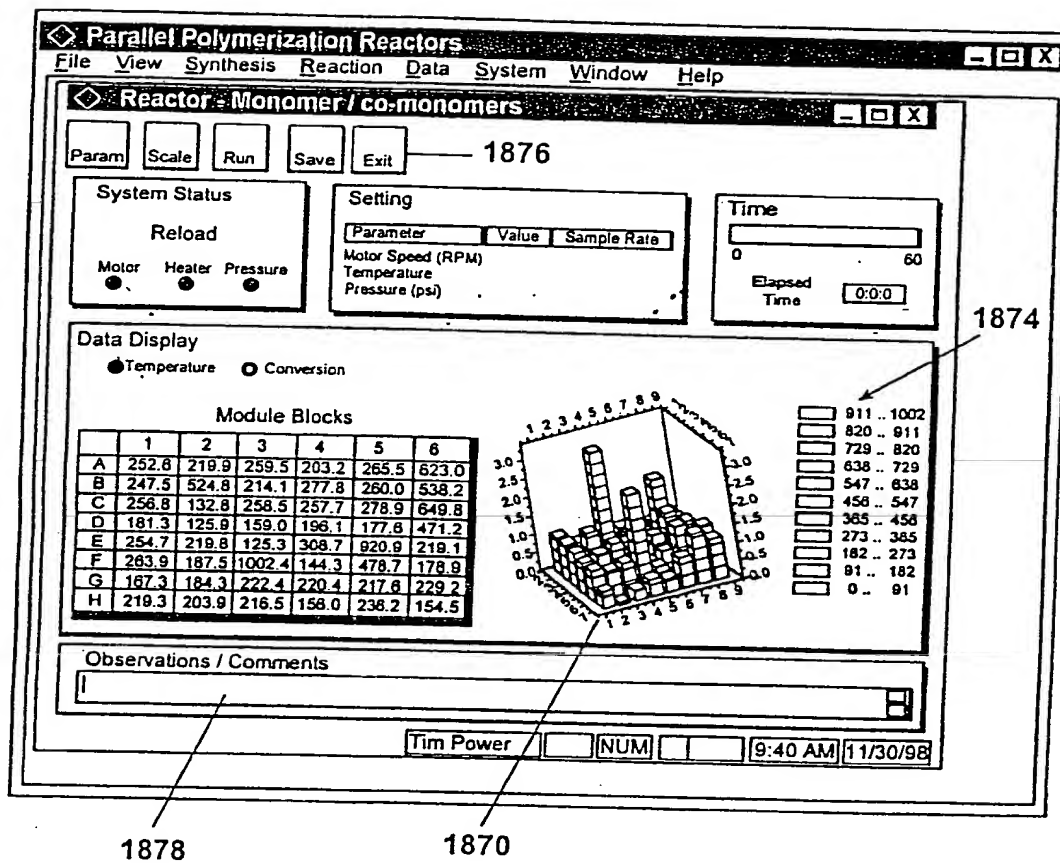


Fig. 64

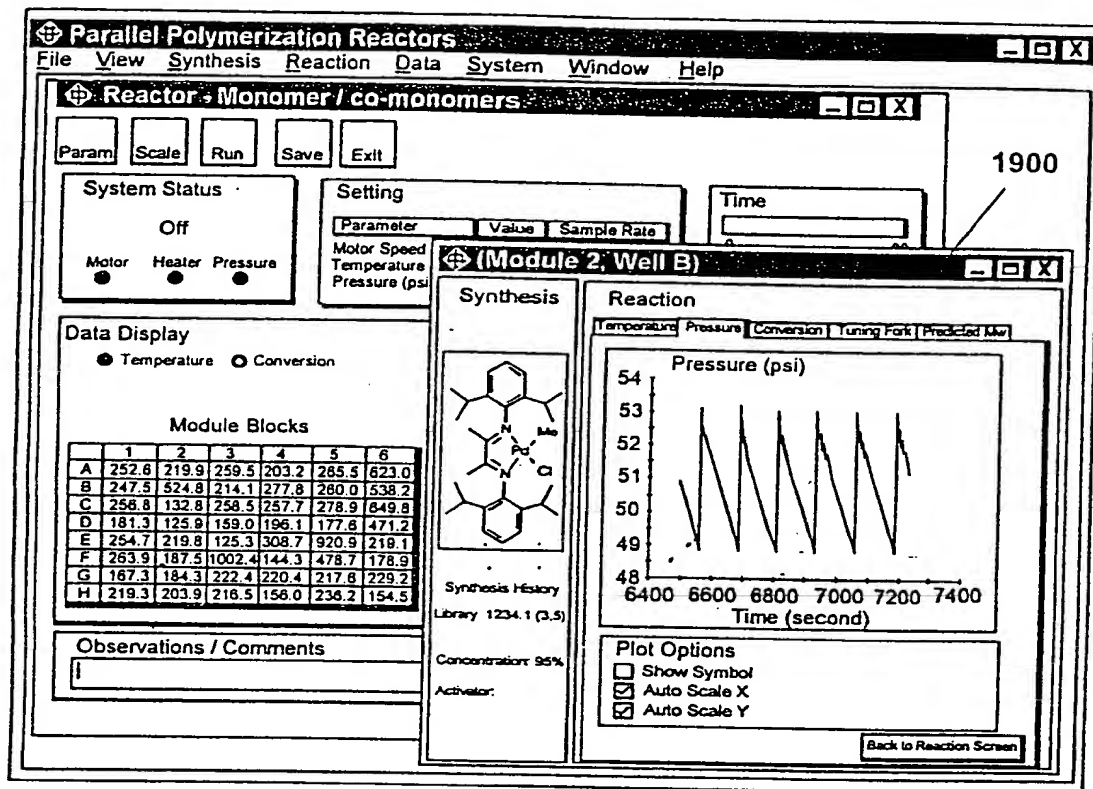


Fig. 65

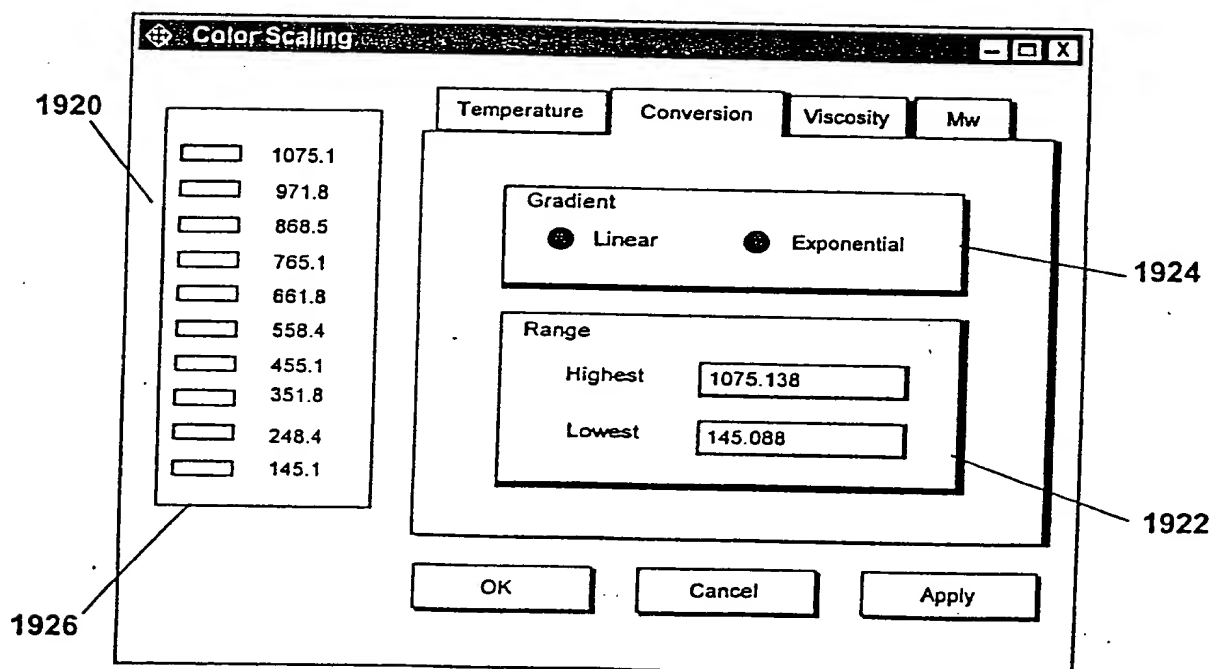
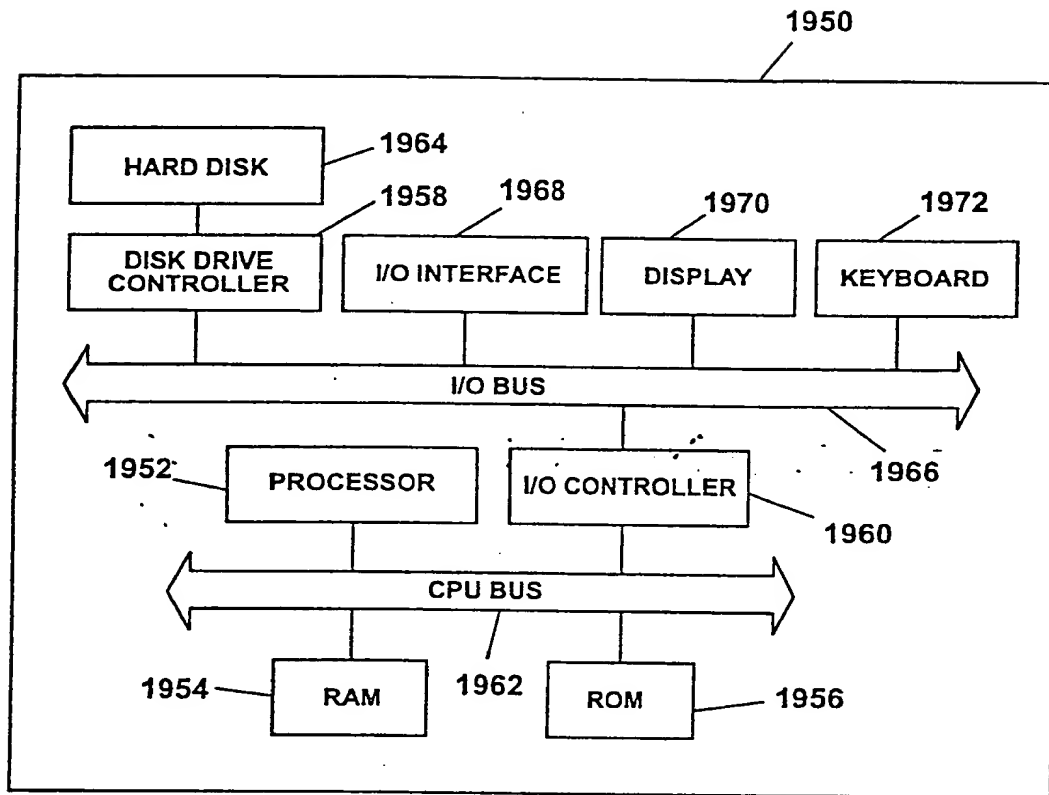


Fig. 66

**Fig. 67**